

George Washington University,
Washington, D.C.

The George Washington University Bulletin
1896-97

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CATALOGUE
OF
THE COLUMBIAN UNIVERSITY

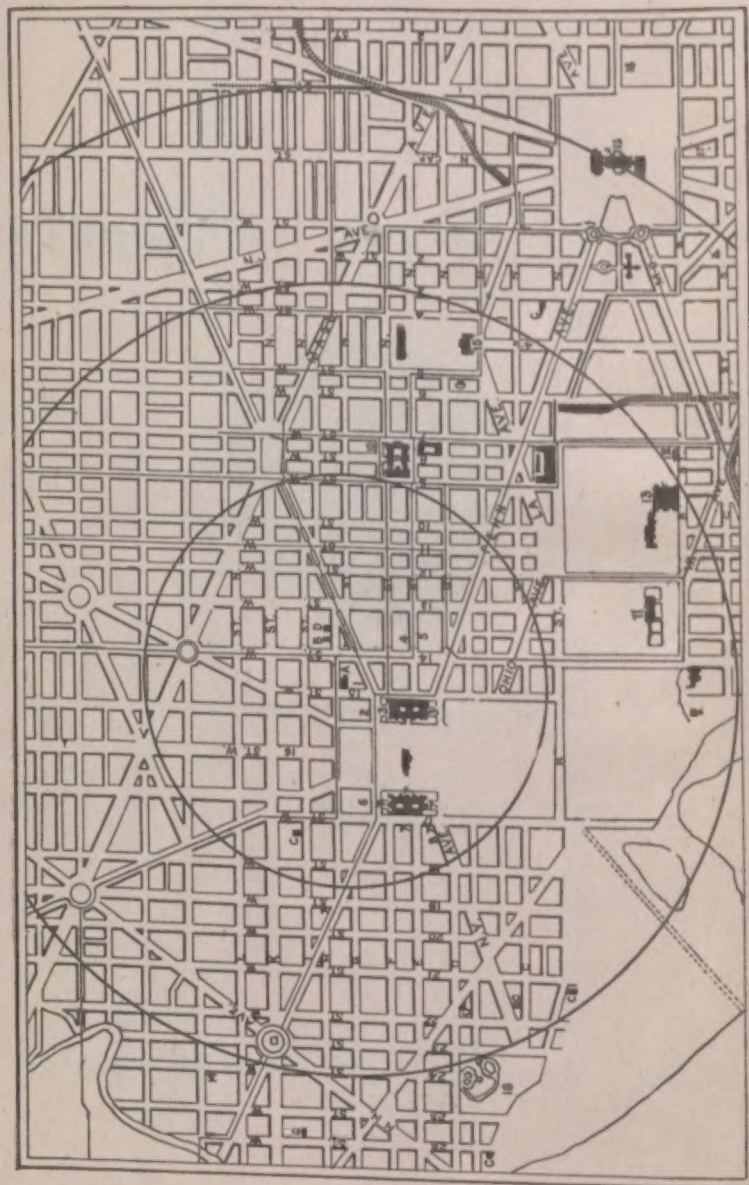


WASHINGTON, D. C.,

1896-'97.

JUDD & DETWEILER,
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES
OF WASHINGTON
1897.

532926



KEY TO THE MAP.

The circles on the map are drawn with radii of 2,000, 4,000, and 6,000 feet respectively from the main building of the University as a center.

- A—The main building of the University, southeast corner 15th and H streets, N. W.
 B—The Columbian Academy.
 C C C C—Parcels of ground belonging to the University.
 D—The Medical and Dental School building.

LIBRARIES, NUMBERED IN THE ORDER OF THEIR PROXIMITY TO THE UNIVERSITY.

Within less than a five or six minutes' walk :

1.	Library of Department of Labor,	8,000 volumes.*
2.	" " Department of Justice,	25,000 "
3.	" " Treasury Department,	30,000 "
3.	" " Light-House Board	3,000 "
4.	" " Bureau of Statistics,	5,000 "
5.	" " Geological Survey,	40,000 "
5.	" " Bureau of Ethnology.	5,000 "
6.	" " Corcoran Gallery of Art,	2,500 "
7.	" " War Department,	49,000 "
7.	" " Navy Department,	29,000 "
7.	" " Department of State,	60,000 "
7.	" " War Records Office,	2,000 "
7.	" " Hydrographic Office,	3,000 "
8.	" " Museum of Hygiene,	11,000 "

Within a five or ten minutes' ride by the street railway :

9.	Library of United States Patent Office,	67,000 volumes.
—	" " Interior Department,	13,000 volumes.
—	" " Post Office Department,	11,000 volumes.
10.	" " Bureau of Education,	68,000 volumes.
11.	" " Department of Agriculture,	53,000 volumes.
12.	" " Army Medical Museum,	105,000 volumes.
13.	" " United States National Museum,	25,000 volumes.
14.	" " United States Weather Bureau,	11,000 volumes.

Within a fifteen minutes' ride by the street railway :

15. The Library of Congress, 900,000 volumes.
15. The Library of the United States Supreme Court, 80,000 volumes.
15. The Library of the Smithsonian Institution, 250,000 volumes.
16. The new Congressional Library.
17. Library of the United States Coast and Geodetic Survey, 14,000 volumes.
18. Site of the old United States Naval Observatory.

Within a thirty minutes' ride by the street railway :

- Library of the new United States Naval Observatory (not indicated on map), 18,000 volumes.
 Library of Nautical Almanac Office, 2,000 volumes.

* Number of volumes January 1, 1897.

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UNIVERSITY CALENDAR.

Current Academic Year, 1896-'97.

1896.

- Sept. 28. { Examination of Candidates for Admission } Monday.
 29. { to College, Medical and Dental Schools. } Tuesday.
 Sept. 30.—Session of all the Departments begins. Wednesday.
 Nov. 26-28.—Thanksgiving Recess.
 Dec. 8.—Annual Meeting of Alumni. Tuesday.
 Dec. 24-Jan. 4, 1897.—Christmas Recess.

1897.

- Jan. 18.—First Term College Examinations begin. Monday.
 Jan. 21. { First Term Scientific School Examinations } Thursday.
 21. { begin. }
 Feb. 1. { Second Term of College and Scientific } Monday.
 1. { School begins. }
 Feb. 22.—Washington's Birthday. Holiday.
 Apr. 16-19.—Easter Recess.
 Apr. 27.—Commencement of Dental School. Tuesday.
 Apr. 29.—Commencement of Medical School. Thursday.
 May 3. { Examinations for Degrees in Graduate } Monday.
 3. { School to be completed. }
 May 17. { Reports of examinations for Degrees in the } Monday.
 17. { Graduate School to be rendered. }
 May 18. { Examinations for Degrees in Law School } Tuesday.
 18. { to be completed. }
 May 19. { Examinations for Degrees in College and } Wednesday.
 19. { Scientific School to be completed. }
 May 24. { Second Term Examinations in College and } Monday.
 24. { Scientific School begin. }
 May 31.—Decoration Day. Holiday.
 June 2.—Doctorate Disputation. Wednesday.
 June 7.—Commencement of Graduate School. Monday.
 June 7.—Commencement of the Academy. Monday.
 June 7.—Exhibition Day. Monday.
 June 8.—Commencement of Law School. Tuesday.

(v)

1897.

June	9.	{ Commencement of College and Scientific School.	Wednesday.
June	14.	—Annual meeting of the Corporation.	Monday.
June	21.	—Session of the Summer School begins.	Monday.

Academic Year 1897-'98.

1897.

Sept.	27.	{ Examination of Candidates for Admission	Monday.
	28.	{ to College, Medical and Dental Schools.	Tuesday.
Sept.	29.	—Session of all the Departments begins.	Wednesday.
Nov.	25-27.	—Thanksgiving Recess.	
Dec.	1.	—Annual Meeting of Alumni.	Wednesday.
Dec.	24-Jan. 4, 1898.	—Christmas Recess.	

1898.

Jan.	17.	—First Term College Examinations begin.	Monday.
Jan.	20.	{ First Term Scientific School Examinations begin.	Thursday.
Jan.	31.	{ Second Term of College and Scientific School begins.	Monday.
Feb.	22.	—Washington's Birthday.	Holiday.
Apr.	8-11.	—Easter Recess.	
May	2.	{ Examinations for Degrees in Graduate School to be completed.	Monday.
May	16.	{ Reports of Examinations for Degrees in the Graduate School to be rendered.	Monday.
May	17.	{ Examinations for Degrees in Law School to be completed.	Tuesday.
May	18.	{ Examinations for Degrees in College and Scientific School to be completed.	Wednesday.
May	23.	{ Second Term Examinations in College and Scientific School begin.	Monday.
May	29.	—Baccalaureate Sermon.	Sunday.
May	30.	—Decoration Day.	Holiday.
June	1.	—Doctorate Disputation.	Wednesday.
June	1.	—University Commencement.	Wednesday.
June	6.	—Annual Meeting of the Corporation.	Monday.
June	20.	—Session of the Summer School begins.	Monday.

THE COLUMBIAN ACADEMY.

CALENDAR.

1897.

September 20, Monday	Entrance Examinations.
September 21, Tuesday	First Term begins.
November 25-28, inclusive	Thanksgiving Recess.
December 20-22, inclusive	Examinations.
December 22, Wednesday	First Term closes.

Winter Vacation.

1898.

January 3, Monday	Second Term begins.
February 22, Tuesday	Washington's Birthday, Holiday.
March 21-23, inclusive	Examinations.
March 23, Wednesday	Second Term closes.
March 24-27, inclusive	Spring Recess.
March 28, Monday	Third Term begins.
April 8, Friday	Good Friday, Holiday.
May 30, Monday	Memorial Day, Holiday.
June 6-8, inclusive	Examinations.
June 8, Wednesday	Third Term closes.
June 10, Friday	Annual Graduation Exercises.

EDUCATIONAL FACILITIES OF WASHINGTON.

Washington is rich beyond any other American city, not only in the special libraries enumerated in the page facing the map, but also in large collections, illustrative of the various arts and sciences, which have been accumulated at the National Capital by the action of Congress through a long series of years. Under many of these heads Washington is not surpassed by any European capital. In view of the fact that in collecting these archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following Joint Resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America, in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

The Columbian University is further authorized to state that certain libraries of eminent men of science connected with the scientific service of the Government, and some of which are exceptionally valuable, will be open to such students of the Graduate School as shall be qualified to use them for purposes of original research.

Educational Relations of the University.

The Columbian University has no organic connection with any literary or scientific department of the Government, but its relations with them all are close and intimate. The President of the United States, the Chief Justice of the United States, and the Attorney General are honorary Overseers. Two Associate Justices of the Supreme Court of the United States and one Associate Justice of the Supreme Court of the District of Columbia are active members of its Law Faculty. The Director of the Bureau of Ethnology is a trustee of the University, and the Smithsonian Institution, the National Museum, the United States Naval Observatory, the Nautical Almanac Office, the Signal Corps of the United States Army, the Army Medical Museum, the Coast and Geodetic Survey, the United States Department of Education, the United States Weather Bureau, the Bureau of Chemistry, the Bureau of Animal Industry of the Department of Agriculture, and the Bureau of the Mint are all represented in the Faculty of the University, and some of these departments have several representatives in its teaching body. The National Academy of Sciences is represented both in the Board of Trustees and in the Faculty of the University. The President of the National Geographic Society is a member of its Board of Trustees. The President of the Society of Philosophical Inquiry is Professor of Philosophy in the University.

Other Scientific Facilities in Washington.

Washington is as much the scientific center as it is the legislative, executive, and judicial center of the United States. The great scientific operations of the Government have their bureaus of direction and administration at the National Capital, and with each of these bureaus a large corps of scientific workers is necessarily connected. For purposes of scientific stimulus and inquiry these workers are here gathered into societies, which hold public meetings for the reading and discussion of papers. The membership of the several societies comprises an aggregate of more than 1,200 persons. The Anthropological Society (Dr. Frank Baker, President), numbering, according to the last Scientific Directory, 132 active, 33 corresponding, and 23 honorary members, meets fortnightly or oftener, on Tuesday evenings. The Biological Society (L. O. Howard, President), with 130 active and 26 corresponding members, meets on alternate Saturdays, from October to May. The Chemical Society (W. D. Bagelow, President), with 105 members, holds meetings on the second

Thursday of each month. The Entomological Society (Mr. C. L. Marlatt, President), with 35 resident and 105 corresponding members, meets on the first Thursday of each month. The National Geographic Society (the Hon. Gardner C. Hubbard, LL. D., President), with 1,386 members, meets every Friday. The Philosophical Society (Marcus Baker, President), with 120 active and 74 non-resident members, holds its sessions on alternate Saturdays. The Mathematical Section of this Society (Professor J. Howard Gore, Chairman) meets on Wednesday, at irregular intervals, in the mathematical lecture-room of the Columbian University. The Society of Philosophical Inquiry (Professor J. MacBride Sterrett, President) meets every Tuesday afternoon during term time in the philosophical lecture-room of the Columbian University. The Philological Association of the Columbian University meets, at the call of the Secretary, in the Latin recitation-room of the University. The Geological Society (Arnold Hague, President), comprising 103 active members and 41 corresponding members, meets on the second and fourth Wednesdays of each month. The annual meetings of the Anthropological, Biological, Geographic, and Philosophical Societies, and occasionally their special meetings of public interest, are held in the main lecture hall of the Columbian University.

The National Academy of Sciences (Dr. Wolcott Gibbs, President) meets annually in Washington in April.

During the Christmas holidays the lecture halls of the University are occupied from year to year by the American Historical Association, the American Church History Association, the Modern Language Association of America, the American Folk-Lore Society, and the American Dialect Society for the purposes of their annual meetings. These meetings are open to the students of the University.

THE UNIVERSITY CORPORATION.

THE REV. BENJAMIN L. WHITMAN, D. D.,
President of the Corporation.

HONORARY OVERSEERS.

THE PRESIDENT OF THE UNITED STATES
THE CHIEF JUSTICE OF THE UNITED STATES
THE ATTORNEY GENERAL OF THE UNITED STATES

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1896-'97.**

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MESSRS. NOYES and CURRY.

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MESSRS. POWELL, HUBBARD, and MASON.

Committee on the School of Graduate Studies.

MESSRS. ——— and GALLAUDEE.

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MESSRS. WILSON, NEEDHAM, and MCKNEW.

Committee on Increase of University Endowment.

MESSRS. LEVERING, GREENE, NOYES, ELLIS, and HUBBARD.

ALUMNI ASSOCIATION.

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ENDOWMENTS.

The value of the University's property and endowments is estimated at about \$1,000,000. The endowments need an increase in every direction. New buildings, or an enlargement of existing structures, are required to accommodate the great increase of students in the Law, Medical, Dental, and Scientific Schools.

The proposed School of Comparative Jurisprudence calls for an endowment of \$250,000.

The following announcements, approved by the Board of Trustees, are extracted from the Annual Report of 1891:

1. Scholarships are rated at two thousand dollars each, and friends of the University are invited to found one or more of them.

2. Fellowships and Lectureships are rated at ten thousand dollars each, the proceeds of the funds to be devoted to endowing courses of lectures or to paying the expenses of meritorious students.

3. Professorships are rated at eighty thousand dollars each, and special "Schools" or "Departments" at two hundred thousand dollars, the income to be devoted to the support of professors or of such Schools, in accordance with the present organization of the Columbian College, the Corcoran Scientific School, and the School of Graduate Studies.

By an act of Congress approved March 3, 1873, the act to incorporate The Columbian College, in the District of Columbia, approved February 9, 1821, was so far modified as to provide, *inter alia*, "that said corporation shall be hereafter known and called by the name of The Columbian University, and in that name shall take, hold, and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name."

FORMS OF BEQUESTS.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be applied, at their discretion, to the general purposes of the University.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them and called the — Scholarship fund. The interest of this fund shall be applied, at their discretion, to the encouragement of deserving students.

I give and bequeath to the Overseers and Trustees of The Columbian University the sum of — thousand dollars, to be safely invested by them as an endowment for the support of the School of —, [a Professorship of —], a Lectureship in the School of —, [a Fellowship in the School of —] in the University, &c.

It may be proper to explain that the term "School" has both a general and a special significance in the classifications of the Columbian University. Generally, it means a combination of several associated chairs, such as the "Law School," the "Medical School," the "School of Graduate Studies." Specially, it means any separate specialty which forms an integral part of these larger combinations, as the "School of English," the "School of Greek," the "School of Chemistry." Such specialties may sometimes require a large corps of associated professors and instructors. The flexibility of the system lends itself to organic growth by fostering an unlimited specialization of science or culture in connection with an unlimited combination of University studies. In the Concordia Scientific School a separate specialty is called a "Department."

OFFICERS OF INSTRUCTION AND GOVERNMENT.

ACADEMIC YEAR 1896 '97

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2017 I Street, N. W.

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1404 H Street, N. W.

DAVID J. BREWER, LL. D., *Professor of the Law of Corporations*,
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1436 Chapin Street, N. W.
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1928 Seventeenth Street, N. W.
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1318 Florida Avenue, N. W.
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236 First Street, S. E.

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strator in Charge of Infirmary*,
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1223 Connecticut Avenue, N. W.

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WILLIAM PERRY HAY, A. M., *Assistant in Zoology*,
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1723 Twentieth Street, N. W.

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1009 Thirteenth Street, N. W.

HARRY GRANT HODGKINS, A. B., *Assistant in Mathematics*,
1688 Thirty-first Street, N. W.

HOWARD LINCOLN HODGKINS, PH. D., *Professor of Mathematics and Physics and Director of the Summer School*,
1830 T Street, N. W.

CHARLES J. HOPKINS, M. D., *Prosecutor to the Chair of Anatomy*,
1130 Twelfth Street, N. W.

- J. C. HORNBLOWER, *Professor of Architecture*,
1509 H Street, N. W.
- PRESLEY C. HUNT, M. D., *Assistant Demonstrator in Anatomy*,
2015 N Street, N. W.
- ADONIRAM JUDSON HUNTINGTON, A. M., D. D., *Professor of Greek*,
1010 N Street, N. W.
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The lectures given in University Hall, other than those given to the students in law, are open to all students in the University and to the public. During the session of 1896-'97 the following lectures have been delivered:

- Professor FRANK H. BIGLOW. — John de Wycliffe, the English Reformer.
 Reverend FRANK SEWALL. — Idealism in Literature.
 Professor EDWARD FARQUHAR. — The Norman Conquest.
 Reverend FRANK SEWALL. — Idealism in Science.
 Professor M. M. RAMSEY. — The Coming of the Bourbon.
 Professor A. P. MONTAGUE. — The Development of a Warlike People.
 Professor C. E. MUSHOP. — Man's Control of Energy.
 Honorable WILLIAM T. HARRIS. — National Spirit of the English, French, and German.
 Professor W. W. JOHNSTON. — Bennett and the Revolution in the Treatment of Pneumonia.
 Honorable JOHN R. PROCTOR. — Industrialism vs. Militarism.
 Professor E. A. DE SCHWEINTZ. — Useful and Injurious Germs.
 Reverend CHARLES JAMES WOOD. — Survivals in Literature.
 Professor W. K. BUTLER. — Spectacles, A Focal Point in the World's Development.
 Professor M. D. LEARNED. — Germans in the United States.
 Professor J. H. GORE. — In the Wake of the Pilgrims.
 MR. E. C. MEISSER. — 1, Realism in Art. 2, Is There a Grammar of Art? 3, Art and the Critic.

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(1)

THE COLUMBIAN UNIVERSITY.

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OTIS T. MASON, Ph. D.,
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The College is open to students of both sexes.

The regular course of instruction is comprised in thirteen schools, as follows:

- I. SCHOOL OF ENGLISH: including English Philology, Anglo-Saxon, English Literature, Rhetoric, and Forensics.
- II. SCHOOL OF GREEK: including the Greek Language and Literature.
- III. SCHOOL OF LATIN: including the Latin Language and Literature.
- IV. SCHOOL OF ROMANCE LANGUAGES: including the French Language and Literature, the Spanish Language and Literature, and the Italian Language and Literature.
- V. SCHOOL OF GERMANIC LANGUAGES.
- VI. SCHOOL OF MATHEMATICS: including Pure Mathematics and Mechanics.
- VII. SCHOOL OF CHEMISTRY: General, Inorganic and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis.
- VIII. SCHOOL OF PHYSICS.
- IX. SCHOOL OF PHILOSOPHY.
- X. SCHOOL OF POLITICAL SCIENCE.
- XI. SCHOOL OF THE FINE ARTS.
- XII. SCHOOL OF HISTORY: including Ancient, Medieval, and Modern History.
- XIII. SCHOOL OF CIVIL ENGINEERING.

School of English.**PROFESSOR POLLARD.**

The aims in this department will be to aid the student in acquiring the ability to use the English language correctly and effectively; to acquaint him with the linguistic kinships and historical development of the language from its earliest stages to its present structure. English literature is studied that the student may become acquainted with the history of our literary development and with great English masterpieces, for purposes of broader culture and of intelligent literary criticism, for introducing the student to literature as an art, and for revealing the store of unfulfilling enjoyment which the best literature affords.

1. The rhetorical principles of style and invention, with frequent written exercises and systematic criticism; later, with study of the style of standard authors. Two hours a week.

Text-books: Genung's Practical Rhetoric and, as required, texts of selected authors.

2. Introductory general course in the history of English literature, followed by a study of the development of English prose style from selected readings. One hour a week.

Text-book: Pancoast's Representative English Literature.

3. History of the English Language. Two hours a week, first term.

Text-book: Lounsbury or Emerson.

4. American Literature, its development and masterpieces; readings, lectures, investigations. Two hours a week, second term.

Text-book: Beers's or Pancoast's American Literature.

5. Forensics, a practical course in argumentation, with preparation of briefs, oral and written arguments, study of forensic masterpieces. One hour a week.

6. Poets and Prose Writers of the Nineteenth Century; readings, criticisms. Two hours a week, first term.

Texts: As may be required.

7. The Elizabethan Period, with special study of Shakespeare and drama. One hour a week.

8. Anglo-Saxon Language and Literature. Two hours a week, first term.

Text-book: Bright's Anglo-Saxon Reader.

9. Beowulf. Two hours a week, second term.

10. Chaucer and Middle English. Two hours a week, second term.

Text-book: Skeat's Chaucer (abridged edition).

11. The Modern English Romantic Movement. One hour a week, first term.

12. The "Lake Poets"—Wordsworth, Coleridge, and Southey. One hour a week, second term.

13. The Essay, as a Literary Form, with study and criticism of great English essayists. One hour a week.

14. Advanced Course in English Literature; investigation and criticism. For reference, Ten Brink, or Saintsbury, and Gosse. One hour a week.

15. Special courses may be arranged looking to investigation of special linguistic problems, or the study of particular literary movements, or the close examination of particular authors. These investigations will be reported in theses, and, in order to enter upon them, special permission must be obtained.

School of Greek.

PROFESSOR HUNTINGTON.

In this School instruction is given in the Greek Language and Literature. The following books are used as text-books or for reference. Goodwin's and Hadley's Greek Grammars, Allinson's Greek Prose Composition, and Oman's History of Greece.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering into Greek English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kühner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's or Long's or Ginn and Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Grote's or Curtius's History of Greece are recommended to students in all the classes.

In this School portions of the following authors are studied :

1. Homer; Herodotus. Three hours a week for two terms.
 2. Xenophon (*Memorabilia*); Lucian. Three hours a week for one term.
 3. Isocrates and Lucian. Three hours a week for one term.
 4. Sophocles, Euripides, Demosthenes, Lysias, and Thucydides. Three hours a week for two terms.
 5. Plato and Aeschylus. One hour a week for two terms.
- For Graduate Courses in Greek, see under head of "Graduate School."

School of Latin.

PROFESSOR MONTAGUE.

In this School instruction is given in the Latin Language and Literature. In all the courses the study of the Latin Grammar, the writing of exercises, original and selected, and sight reading are required; in course 4, lectures are given upon Pedagogics, and to give practical illustration of the principles and suggestions thus presented, the students are from time to time called to the chair and required to conduct the recitation.

The following works are recommended: Grammars: Harkness's (text book), Allen and Greenough's, Peters's, Madvig's, Gildersleeve and Lodge's, Bennett's; Lexicons: Harper's, White's English-Latin; Roman Literature: Cruttwell's, Wilkins's; Classical Atlas: Gunn & Co.'s or Kiepert's; Histories: Merivale's, Allen's, Myers's, Gibbon's. In all the courses selections from the Latin authors for private reading and examination are prescribed and the study of Roman Literature is pursued.

COURSES.

1. Ovid, Livy, Horace (*Odes*). Three times a week for one year.
2. Horace (*Satires* and *Epistles*), Cicero (*De Senectute* and *De Amicitia*), Pliny (*Letters*), Plautus (*Captivi*). Three times a week for one term.
3. Cicero (*Letters*), Tacitus (*Germania*), Roman Antiquities. Three hours a week for one term.

4. Tacitus (*Agrocola* and *Annals I*); Seneca, Juvenal, Curtius Rufus; Lucretius; annotations by the students upon the authors read. For practical instruction in this work, see course "Books and Book-making." Three hours a week for one year.

5. Persius; Quintilian; Essays upon Roman Literature. One hour a week for one year.

6. Cicero (*De Finibus*), Social Life of the Romans. One hour a week for one year.

For Graduate Courses in Latin, see under head of "Graduate School."

School of Romance Languages.

PROFESSOR RAMSEY.
DOCTOR SOTELDO.

FRENCH LANGUAGE AND LITERATURE.

1. During the first term the class undergoes a thorough drill in pronunciation and becomes familiar with the spoken language. In the study of the grammar especial stress is laid upon acquiring a readiness in applying the principles learned, and to this end a large number of graded exercises are rendered, both orally and in writing, into French. At least once a week a talk on some simple topic is given in French, and the class is required to render portions of it into English. During the last term the students devise exercises based upon portions of the texts read in class. Three hours per week.

Text-books: Muzzarelli's *Académie French Course*; Stern-Méras, *Étude Progressive de la Langue Française*; Halevy, *L'Abbe Constantin* (Super's edition, with notes and vocabulary); Labiche et Delacour, *Les Petits Oiseaux*.

2. The first term is devoted mainly to a review of the grammar, as presented by a more complete text book, with abundant exercises in both oral and written translation. During the remainder of the year the syntax is carefully studied, and a systematic effort is made to increase the student's vocabulary. The results attained are at once put to use in the form of brief compositions. At least three hours per month are devoted to French conversation. Three hours per week.

Text-books: Whitney's *Practical French Grammar*; Gaillard's *French Vocabulary*; Lacombe, *Petite Histoire du Peuple Français*; Mérimée, *Colomba*; Achard, *Le Clos Pommer*; de Maistre, *Les Personnages du Caucase*.

3. The work during this year is intended to give the class a familiarity with the principal events of the literary history of France and of the biography of the leading French writers. Fortier's *Histoire de la Littérature Française* is used during the first term as a syllabus, which is largely supplemented by lectures and by the individual investigations of the students. Incidentally the class is instructed in the broader principles of rhetoric and style. During the second term the students read and summarize some representative works of the Classic period. Three hours per week.

Text-books: Fortier, *Histoire de la Littérature Française*; Corneille, *Le Cid*; Racine, *Athalie*; La Fontaine, *Fables Choises*; Walter's *Classic French Letters*.

4. The study of the literature is continued in this year largely by the reading of texts, the students writing criticisms in French of the works that pass under their notice. The period since the French Revolution constitutes the special field of study, and the texts read are therefore selected from representative works of the present century. An effort is made to have several lectures upon literary themes delivered in French by persons not connected with the University. Three hours per week.

Text-books: Taine, *Les Origines de la France Contemporaine*; Hugo, *Ruy Blas*; Balzac, *Eugénie Grandet*; Sandeau, *Mademoiselle de la Scapulaire*; Coppée, *On Rend l'Argent*.

For Graduate Courses in French, see under head of "Graduate School."

SPANISH LANGUAGE AND LITERATURE.

Requirements for admission: Latin, 1; French, 1.

1. The study of the language is taken up at the first elements, especial stress being laid upon the acquisition of a correct pronunciation. The grammar is studied as far as the gerund. Part III, chapter 7, of text-book, and the principles are enforced by the translation, both oral and in writing, of copious exercises into Spanish. The class is familiarized from the outset with the spoken language by means of descriptive talks upon simple topics, and later by its use as the medium of instruction. Three hours per week.

Text-books: Ramsey's *Text-Book of Modern Spanish*; Ramsey's *Elementary Spanish Reader*.

2. The study of the grammar and syntax is continued through the grammatical text-book, and the principles are applied in the translation

of exercises and the composition of essays and letters. Lectures are given upon the development of the language and the history of the literatures of Spain and Spanish America. Three hours per week.

Text-books: Grammar, as above; Alarcón, *El Sombrero de Tres Picos*; Isaacs, *María*; Valera, *El Comendador Mendoza*; Sarra, *Parter à Tempo*; Castelar, *La Hermana de la Caridad*.

For Graduate Courses in Spanish, see under head of "Graduate School."

ITALIAN LANGUAGE AND LITERATURE.

(Requirements for admission: Latin, 1 and 2; French, 1.)

1. The instruction during the first year is intended to give the students a good pronunciation, the essentials of grammar, a fair amount of vocabulary, and an ability to read easy prose at sight. After the grammatical rudiments have been mastered and impressed by written and oral translation of exercises, the class passes to the reading of connected texts. Two hours per week.

Text-books: Sauer's Italian Grammar; de Amicis, *Cuore*; Barrili, *Una Notte Bizarra*.

2. Further study of the grammatical construction and the principles of syntax and style. Lectures are given on the development of the language and the history of the literature. Torraci's *Manuale della Letteratura Italiana* is studied as a convenient summary, which is supplemented by the following amount of reading: Gherardi del Testa's *L'Orca*; *L'Orpello*, the first half of Manzoni's *I Promessi Sposi*, and selections from Pellico's *Le mie Prigioni*, Machiavelli's *Storia Fiorentina*, Ariosto's *Orlando Furioso*, and Tasso's *Gerusalemme Liberata*. Two hours per week.

School of Germanic Languages.

PROFESSOR SCHOENFELD.

Instruction in this department has, as its primary object, a thorough knowledge of the grammar and familiarity with the literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

1. Review of elementary grammar (Otis); accurate training in phonetics and translation into German; beginning of conversation; readings from the best German prose-writers and poets. Three hours a week.

2. German syntax; extensive translation into German; selected stories; beginning of classical reading and literature; elements of German history. Three hours a week.

3. Study of the principal difficulties of the language; idioms, synonyms (Sanders's *Hauptschwierigkeiten der deutschen Sprache*); German essays; literature of the second German Blüteperiode; German history; extensive reading from the classics. Three hours a week.

4. Elements of philology; survey of German literature and its relation to the other Germanic peoples; history of the old and the new German Empire; lectures in German; extensive classical reading; introduction into the *Nibelungen Lied* and the *Gudrun Saga*. Three hours a week.

Classes in the Scandinavian languages will be formed if a sufficient number of students shall apply.

For reference: "Higher Education in Russian, Austrian, and Prussian Poland."

School of Mathematics.

PROFESSOR GORE.

In this School instruction is offered in twelve courses.

1. Solid Geometry; Wells's Revised Geometry. Three hours a week for two months.

2. Algebra, including determinants; Taylor's Algebra. Three hours a week for three months.

3. Plane Trigonometry; Wells's Trigonometry. Three hours a week for two months.

4. Spherical Trigonometry; Wells's Trigonometry. Three hours a week for two months.

5. Analytic Geometry; Nichols's Analytic Geometry. Three hours a week for four months.

6. Theory of Equations; Chapman's Theory of Equations. Three hours a week for two months.

7. Differential and Integral Calculus, Taylor. Three hours a week for five months.

8. Differential Equations; lectures, notes by Professor Gore. Three hours a week for three months.

9. Theory of the Complex Variable; lectures with references to Durège and Forsyth. Two hours a week for one term.

10. Elliptic Functions, Baker. Two hours a week for one term.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical applications is insisted upon.

OPTIONAL COURSES.

11. Analytical Mechanics. One hour a week for two terms.

12. Theory of Probabilities, with Applications to Least Squares; Lectures, notes by Professor Gore. One hour a week for two terms.

For Graduate Courses in Mathematics, see under head of "Graduate School."

School of Chemistry.

PROFESSOR MUNROE.

1. General, Inorganic and Organic Chemistry; lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Three hours per week.

Barker's Elementary Chemistry; Renssen's Organic Chemistry.

2. Laboratory Practice. Students must provide themselves in all the laboratory courses with note books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University. Three periods a week.

Cooke's Laboratory Practice.

3. Qualitative Analysis. Three periods a week.

Clowe's Qualitative Analysis.

4. Quantitative Analysis. Three periods a week.

Fresenius's Quantitative Analysis.

School of Physics.

PROFESSOR HODGKINS.

1. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures will be illustrated by experiments and will be based on Gage's Principles of Physics. Three hours a week.

2. An advanced course on General Physics. This will be a theoretical and mathematical course and will require a thorough acquaintance with the phenomena of Physics. Barker's Physics will be used as the text-book. Three times a week.

3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course 1. Lectures on physical theories and on laboratory methods will be given from time to time. Topics for study and discussion will be assigned to the whole class, and to different members of the class will be assigned subjects upon which they will prepare special reports. Three times a week.

4. A lecture and laboratory course in Magnetism and Electricity. Foster and Atkinson's edition of Jouber's Electricity and Magnetism. Three times a week.

5. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three times a week.

6. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three times a week.

School of Philosophy.

PROFESSOR STERRETT.

The special studies in this School are pursued in the two upper classes.

1. The Junior Class (three hours a week throughout the year) study Logic the equivalent of one hour a week throughout the year. Jevon's Hill (*Elements of Logic*) is used as a text book.

2. The equivalent of two hours a week during the first term is given to the study of Psychology, the aim being to make this work a preparation

for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations.

Dewey or Baldwin is used as a hand-book, with lectures, themes, and constant reference to the leading works on Psychology.

In the second term the equivalent of two hours a week is given to (1) the study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-book Schwegler and Weber; (2) the statement and discussion of the fundamental problems of philosophy.

3. The Senior Class spends the first half of the year (three hours a week throughout the year) in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. This is followed by a constructive theory of ethics. McKenzie's *Manual of Ethics*, Dewey's *Outlines of Ethics*, and Muirhead's *Elements of Ethics* are put into the hands of the students for use.

A course of lectures is also given on the fundamental postulates, concepts, and principles of Christian Ethics.

This is followed by a six weeks' course on the Philosophy of History.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon), and for attendance on the course of papers and discussions before *The Society for Philosophical Inquiry*, meeting in the University every Tuesday afternoon, with program for the current year as shown in course of philosophical lectures open to the students, mention of which is made in this Catalogue.

COURSES, ALTERNATE AND ELECTIVE.

4. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. First term, one hour a week.

5 (a). History of Ancient Philosophy. Second term, three hours a week. Lectures, with study of some of the text, and Zeller's History.

5 (b). History of Modern Philosophy. Second term, three hours a week, alternating with 5a). Lectures, with study of text of several systems and with reference to Falkenburg and Windelband.

6. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. *Painter and Rosenkranz*. Elective. Second term, one hour a week.

7. The Metaphysics of Ethics. Study of Green's *Prolegomena to Ethics*. Second term, one hour a week.

For Graduate Courses in Philosophy, see under head of "Graduate School."

School of Political Science, Including Politics, Economics, Jurisprudence.

PROFESSOR LODGE.
THE HONORABLE W. L. WILSON.
MAJOR J. W. POWELL.
DOCTOR O. T. MASON.
PROFESSOR L. F. WARD.

GENERAL STATEMENT.

The studies in this School are designed to furnish the learner with an account of the genesis, development, and growth of political institutions. In all the branches pursued the method is comparative. Particular pains are taken to send students to the original sources of information as far as possible. To this end the class are constantly called upon to make use of the unequalled facilities of the Capital City for historical research. The archives of the Department of State are utilized to bring the student into direct contact with the original documents of American history.

COURSES.

PROFESSOR LODGE.

1. The Development of the English Constitution; lectures; collateral reading; studies in Gardiner, Freeman, Stubbs, and Boutmy. Two hours a week for three months.

2. The History of French Political Institutions; lectures; studies in Guizot, Taine, and Sir James Stephens. Two hours a week for three months.

3. The Evolution of American Political Ideas; lectures; studies of our history in its sources; collateral reading in the standard American historians and in C. E. Stevens's *Sources of the Constitution*. Two hours a week for three months.

4. Political Economy; text book, Hadley; studies in socialism and communism, cooperation, and other current economic problems. Three hours a week for one year.

5. The History of Political Economy in Europe; lectures; studies in Blanqui. One hour a week for one term.

6. The Economic History of the United States; lectures; studies in Wells, Sumner, and Taussig. One hour a week for one term.

7. The Constitutional Law of the United States; text-books, Cooley and Bryce, with frequent studies in Elliot's *Debates*, the *Federalist*, Bancroft's *Formation of the Constitution*, Marshall, Story, Pomeroy, and Von Holst. Two hours a week for one year.

8. International Law; text-books, Gallandet and Lawrence; lectures on the History of the Law of Nations; studies in Maine, Wheaton, and Calvo. One hour a week for one year.

9. The Theory of the State; text-books, *Histoire de la Science Politique*, Janet; *History of the Science of Politics*, Pollock; *The Theory of the State*, Bluntschli; studies in Montesquieu, Hobbes, Locke, and Woolsey. Two hours a week for one year.

10. The History of Civilization, a course of lectures on history, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies in primitive society, and are followed by a rapid survey of the "civilizing stream" in its passage from Egypt through Assyria, Judea, Phoenicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America. Two hours a week for one year.

THE HONORABLE W. L. WILSON.

11. The History of American Economic Legislation.

MAJOR J. W. POWELL.

12. *Culturgeschichte*.

DOCTOR O. T. MASON.

13. Origins of Invention.

PROFESSOR L. F. WARD.

14. Sociology.

For Graduate Courses in Political Science, see under head of "Graduate School."

Books and Bookmaking.

PROFESSOR GORE.

In this course instruction will be given in:

1. The collection and preservation of material preparatory to the writing of a book. Lecture by Professor Mason on "How to Write a Book."
2. The preparation of manuscripts.
3. The illustrating of books. Lecture by Mr. W. J. Hoffman.
4. Printing of books. Lecture by Mr. George H. Judd.
5. Proof-reading, with extensive practice.
6. Book-binding, including lettering and styles of binding. Illustration by Doctor Fletcher.
7. Cataloguing and classification. Lecture by Dr. T. N. Gill.
8. Bibliography.

Every effort will be made to utilize the exceptional advantages offered by the presence in Washington of specialists in the topics outlined above, and opportunities will be offered for practical work by members of the Faculty engaged in literary work or who require of their students thorough investigation.

The private library of the Professor is well equipped with bibliographical aids and illustrative material.

School of the Fine Arts.

PROFESSOR PARTRIDGE.

Announcements concerning the course and the lectures in this School will be made at the beginning of the next academic year.

School of History.

ACTING PROFESSOR SWISHER.

The required work in History extends through the Sophomore year, and embraces a careful survey of the more important facts of Ancient and Medieval History in their relation of cause and effect. It is designed almost exclusively as a preparation for the satisfactory completion of the two following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the Graduate School. The work will be conducted by means of text-books, lectures, readings and reports, in all of which it will be sought to familiarize the student with original sources.

COURSES.

1. Ancient History. Three hours for one term.
2. Medieval History. Three hours for one term.
3. American History during the Colonial and Revolutionary periods. Three hours for one term.
4. American History from the close of the Revolution to the present time. Three hours for one term.
5. English History to the Congress of Vienna. Three hours for one term.
6. Continental History. The Renaissance Movement and the Reformation through the Catholic Reaction. Three hours for one term.
7. The Period of Louis XIV and the antecedents of the French Revolution. Three hours for one term.
8. Europe during the French Revolution and the Napoleonic wars. Three hours for one term.
9. Political History of Continental Europe since the Congress of Berlin. Three hours for one term.
10. English History during the reign of the present Queen. Three hours for one term.

School of Civil Engineering.**ACTING PROFESSOR FREYHOLD**

1. Descriptive Geometry. Two hours a week.
2. An Elementary Course in Construction. One hour a week.
3. A Course in Land Surveying. Two hours a week.
4. Analytical Mechanics. Three hours a week, one term.
5. A Course in Topographical and Railroad Surveying. One hour a week.
6. Strength of Materials. Two hours a week, one term.
7. Graphic Statics. Two hours a week, one term.
8. Bridge Design, Steel Roofs and Buildings. Four hours a week.
9. Hydraulics. Three hours a week, one term.
10. Construction. Foundations, arches, walls, dams. Two hours a week.

Time and Terms of Admission.

The session of 1897-'98 will open September 29, 1897.

- I. Entrance examinations will be held on Friday and Saturday, June 4 and 5, and on Monday and Tuesday, September 27 and 28, 1897.

The following will be the schedule:

First day :	9.00-10.30, English
	10.30-12.00, Latin
	12.30-2.00, Greek, Solid Geometry
Second day :	2.00-3.30, French
	9.00-10.30, German
	10.30-12.00, Physics, Chemistry
	12.30-2.00, Algebra
	2.00-3.30, Plane Geometry.

II. Every applicant is required to submit testimonials of character and scholarship.

III. Candidates for admission to the course leading to the degree Bachelor of Arts will be examined in English, Greek, Latin, French, German, Algebra, and Plane Geometry.

IV. Candidates for admission to the course leading to the degree of Bachelor of Science will be examined in English, Algebra, Plane Geometry, Solid Geometry, Physics or Chemistry, and in two languages, one of which must be French or German.

V. Candidates for admission in English in 1897 must be able to answer questions upon the elementary principles of practical rhetoric; they must show familiarity with the following works: Shakespeare's *As You Like It*, Defoe's *History of the Plague in London*, Irving's *Tales of a Traveller*, Hawthorne's *Town-Idiot Faces*, Longfellow's *Hyperion*, and George Eliot's *Silas Marner*. These are to test the pupil's general reading. Of the following books he will be expected to show thorough knowledge as to subject-matter, form, and structure: Shakespeare's *Method of Learning*, Burke's *Speech on Conciliation with America*, Scott's *Macdonald*, and Macaulay's *Life of Samuel Johnson*.

The examination will be written, of about one hour and a half in length. Account will be taken of spelling, punctuation, paragraphing, mode of expression, and the like.

In 1898 the books upon which the examination will be based are the following: For general knowledge: Milton's *Paradise Lost*, Books I and II; Pope's *Essay*, Books I and XXII; *The Seven Years' War*, Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Lionel Lincoln*; Southey's *Life of Nelson*; Carlyle's *Essay on Heroes*; Lowell's *The Vision of Sir Launfal*; and Hawthorne's *The House of the Seven Gables*. For thorough knowledge, as to subject-matter and structure: Shakespeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *The Flight of a Tartar Trader*, and Tolstoy's *The Princess*.

VI. Candidates for admission in Greek will be examined in Goodwin's or Hadley's Greek Grammar, Goodwin's Greek Reader or Xenophon's *Anabasis*, first four books, first three books of Homer's *Iliad*, Jotun's Greek Prose Composition, and Myers's or Schmidt's History of Greece.

VII. Candidates for admission in Latin will be examined in Latin Grammar, four books of Cicero's *Commentaries*, six of Cicero's Orations, six books of the *Æneid* of Virgil, Salust's *Conspiracy of Catiline* (in part), Latin Composition, and Allen's, Myers's, or Patten's History of Rome.

VIII. Candidates for admission in French will be examined in the elements of Grammar and the ability to read at sight easy prose.

IX. Candidates for admission in German will be examined in the elements of Grammar and the ability to read at sight easy prose.

X. Candidates for admission in Mathematics will be examined in Algebra (through Quadratic Equations) and in Plane Geometry, and in Solid Geometry for the degree of B. S.

XI. Candidates for admission in Physics will be examined in Elementary Physics. Carhart and Chute's Physics, Avery's School Physics, Gage's Introduction to Physical Science, or Hall and Bergen's Text-book of Physics will give suitable preparation.

Both text-book study and laboratory work will be expected.

XII. Candidates for admission in Chemistry will be examined in Elementary Chemistry. Storer and Lindsay's Manual of Chemistry will give suitable preparation.

XIII. Candidates for admission to an advanced class in any School will be examined in all indispensable preliminary studies.

XIV. Candidates may be excused from examination in some or all of the required subjects by presenting certificates from The Columbia Academy, the Washington High School, or from other Schools of good standing. Blank forms of such certificates may be obtained on application to the Dean.

XV. Students wishing to pursue a special course in certain Schools will be admitted to the classes for which they may be found qualified, and every student pursuing such a course, if under the age of twenty years, is required to include in the selections not less than three distinct Schools, with at least twelve recitations or lectures a week. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

XVI. No student will be permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty.

Degrees.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of Graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "Graduate School" in this Catalogue.

COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF ARTS.

(The figures refer to the numbers of the courses in the several Schools of the College, as previously described.)

FRESHMAN YEAR.

English, 1, 2	French, 1, or
Greek, 1	German, 1
Latin, 1	Mathematics, 1, 2, 3

SOPHOMORE YEAR.

Greek, 2, 3, or	History, 1, 2
Latin, 2, 3	English, 3, 4, 5
French, 2, or	Chemistry, 1, or
German, 2	Physics, 1.

JUNIOR YEAR.

Greek, 4, or	Philosophy, 1, 2.
Latin, 4	

Elective, 9 hours a week.

SENIOR YEAR.

Political Philosophy, 4.	Philosophy, 3
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Elective, 9 hours a week.

COURSE OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

FRESHMAN YEAR.

English, 1, 2.	Mathematics, 1, 2, 3.
French or German, 1	Physics, 1.
Chemistry, 1.	

SOPHOMORE YEAR.

French or German, 2	Chemistry, 2.
Mathematics, 4, 5, 6	Physics, 2.
History, 1.	

JUNIOR YEAR.

Mathematics, 7, 8	Chemistry, 3, or Physics, 4.
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Elective, 9 hours a week.

SENIOR YEAR.

Elective, 15 hours a week.

Examinations.

At the end of each term, examinations of all the classes of all the Schools are held in the studies of that term.

The results of the Term Examinations are combined with those of the daily recitations of the student during the term, in order to ascertain academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and in default of doing so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement, that time may be given to Professors for the inspection of written examination papers, and to students for the preparation of parts to be performed on Commencement Day by the successful candidates to whom public parts on that day may be assigned by the Faculty. In order to graduate, students must obtain at least 75 *per cent.* in the examinations in all of the subjects.

Each candidate for a degree must submit one week before commencement a thesis upon some topic connected with his principal study.

Examinations for prizes are concluded three weeks before the end of each scholastic year.

Annual Prizes.

Besides the honors and degrees conferred in the regular course, prizes are annually offered as rewards of special excellence in particular branches of study.

The Davis Prizes, for excellence in Eloquence, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. These prizes are awarded by a committee selected by the Faculty for this purpose and are publicly delivered at the Annual Commencement.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the two best scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from the Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations to the Columbian College.

The Class of '96 James Macdonald Starnett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees are allowed to compete.

Prizes in 1895-'06.

Staughton Prize, Mary C. Chapin, District of Columbia; H. May Johnson, District of Columbia.

Elton Prize, Elinor Wilson, District of Columbia.

Munroe Prize, Marie McKelden, District of Columbia.

Debater's Prize in the Eusebian Society, H. H. Donnelly, Virginia.

Gore Prize in Parliamentary Law, J. S. Johnson, Virginia.

Annual Commencement.

The Annual Commencement of the College is held on the second Wednesday in June.

Public parts are assigned on Commencement Day to such students only as have passed a satisfactory examination for the Degree of Bachelor of Arts or of Science, except as before indicated, in the case of those who may be contestants for the prize of Elocution.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any Department are publicly delivered on the same day.

Public Worship.

Brief devotional exercises, which all students are expected to attend, are held daily in the College Chapel.

Library Hours.

The College Library is open every day from 9 o'clock a. m. to 1 o'clock p. m., and from 6 to 10 p. m., for study and inquiry, as well as for the distribution of books. A reading-room, provided with the leading reviews, periodicals, and newspapers, is maintained by the Alumni for the use of students and graduates.

The Libraries of Congress and of the various Departments of the Federal Government are accessible to students for research in any special line of studies.

Literary Society.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

Lectures.

Courses of Lectures in Literature, Art, and Science are organized every year by the authorities of the University. These lectures are open

all the classes, and to the public, on application being made for a ticket of admission. Lectures on Science, under the auspices of the Scientific Societies of Washington, whether delivered in the Lecture Hall of the United States National Museum or in the Hall of the University, are open to all students of the University.

Mention of lectures delivered during the present session is made elsewhere in this Catalogue.

General Orders.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and Overseers, and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered periodically to parents or guardians.

The daily recitations of the College classes are brought, as far as practicable, into the early portion of the day. The advantages of attendance upon the debates of Congress and upon lectures before various associations are offered to students of the higher classes without detriment to proficiency in their studies.

College Expenses.

1. Admission Fee, paid but once, on entrance	\$10 00
2. Tuition for the year in three or more Schools	100 00
3. Tuition for the year in two Schools	70 00
4. Tuition for the year in one School	50 00
5. Laboratory work in chemistry, 2 and 3 material each	10 00
6. Final Diploma Fee	10 00

These charges cover all expenses.

Bills are payable semi-annually, in advance.

Scholarships.

The Kendall Scholarship, founded by the late Hon. Amos Kendall and running for six years, two in the Academy and four in the College, is annually conferred on the best scholar in the Washington High School. Students on this foundation pay semi-annually, in advance, a fee of eight dollars.

A recent ordinance of the Corporation increases by six the number of scholarships to be distributed annually among the High Schools of Washington, the successful candidates being determined by a competitive examination held at the University about the first of June of each year. Holders of these scholarships pay semi-annually, in advance, a fee of eight dollars.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, the well-known civil engineer, consist of the income from five thousand dollars. This sum is to pay the tuition of worthy young men who need assistance while preparing for the civil engineering profession.

Rooms and Board.

Desirable rooms, convenient to the University buildings, are obtainable at \$5 to \$15 per month, and good board is offered at \$15 to \$20 per month. A list of eligible boarding houses will, upon request, be furnished by the Secretary and Treasurer of the University.

It is confidently expected that by the beginning of the next academic year 1897-'8 accommodations may be offered in College dormitories within easy reach of the University. Should this plan be carried into effect, students of any department who may desire to obtain board and lodging at more reasonable rates, or to come into closer relations with the social life of the College, may, by early application to the Dean, be accommodated at prices ranging from \$15 to \$20 per month, according to location of rooms. The dormitories will be in charge of the University authorities.

For further information concerning the Columbian College, application may be made to

A. P. MONTAGUE, *Dean,*
The Columbian College, Washington, D. C.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Freshman	Mathematics Physics Chemistry History German	Greek Physics French English	Mathematics Chemistry Latin German	Latin Greek Physics German French	Mathematics Latin Greek French
Sophomore	Latin Physics (A, B) Chemistry English German History Physics	English Physics (A, B) Mathematics French German	Latin Mathematics Chemistry Physics English German Spanish	German Physics (A, B) Chemistry English French Spanish	Latin Greek Physics Latin Spanish
Junior	German Latin Psychology History Elective English Language	English Philosophy French German Physics English Language French	German Mathematics Physics English Spanish	English Mathematics Physics French Spanish English	English Mathematics Greek French English
Senior	Physics Political Economy Latin Theory of the State Mathematics History of Civilization German	Constitutional Law English German English Literature History of Civilization French International Law	Political Economy German Theory of the State French History of Civilization Mathematics English	Latin Political Economy Mathematics English French Constitutional Law	Latin Greek Mathematics History French

* Arrangements for classes in Italian will be made when practicable.

532926

Students.

CANDIDATES FOR DEGREES

Name	State	Address
John Howard Adamson	Va.	Alexandria, Va.
J. Henry Alschin	D. C.	1344 G Street, N. W.
J. William Beatty	Kansas	631 Second Street, N. W.
George Magruder Berry	Md.	720 Twenty-first Street, N. W.
Helen Ruth Biddis	Pa.	Pekington, D. C.
Florence Lorraine Bingham	D. C.	123 Massachusetts Ave., N. W.
Edmund Kemper Brondus	Va.	3626 Thirtieth Street, N. W.
Branson C. Buxton	Va.	Falls Church, Va.
Elise Bradford	R. I.	5322 P Street, N. W.
George G. Chase	Kansas	The Cairo
Reed Page Clark	N. H.	1424 Eleventh Street, N. W.
Thatcher Clark	N. Y.	1628 Riggs Place, N. W.
Henry Clay Column, Jr.	D. C.	2111 G Street, N. W.
Paul Cockerille	D. C.	1425 New York Avenue, N. W.
De Witt Clinton Croissant	D. C.	821 North Carolina Avenue, S. E.
E. Kendal Carter	D. C.	1522 K Street, N. W.
Harry Tennyson Domei	Pa.	748 Eleventh Street, N. W.
Lula Draper	D. C.	The Columbian University
Frank Norton Everett	Mass.	The Concord
Joseph Finckel	D. C.	1319 S Street, N. W.
Carroll T. Fugitt	D. C.	1416 K Street, N. W.
G. Emory Green	Mass.	1123 Seventeenth Street, N. W.
George Herbert Gærdrum	Norway	Anacostia, D. C.
Quintof Harlan	Md.	801 Fourth Street, S. E.
Rolvix Harlan	Md.	1229 Tenth Street, S. E.
Mary Squire Himman	Ohio	1314 Kenesaw Avenue, N. W.
Alphonzo Augustus Hobson	Va.	711 Rhode Island Avenue, N. W.
G. Carroll Hoover	Pa.	63 R Street, N. W.
Frances Mabel Jacobs	D. C.	1327 Eleventh Street, N. W.
Laurance A. Janney	D. C.	1671 Thirty-first Street, N. W.
Joseph Chapman Johnston	Va.	929 Virginia Avenue, S. W.
Fred Craig Jones	D. C.	946 F Street, S. W.
Charles B. Keller	N. Y.	1122 G Street, S. E.
Gilbert Walker Kelly	D. C.	228 A Street, S. E.

Name	State	Address
Mary Isabel Kelly	D. C.	228 A Street, S. E.
Anna Campbell Kelton	Cal.	1841 R Street, N. W.
Eleanor Annie Lamson	D. C.	Anacostia, D. C.
Melville Wilmer Landsey	Va.	Alexandria, Va.
William S. Manning	W. Va.	1611 Rhode Island Avenue, N. W.
Ruth McGowan	Mich.	1445 Staughton Street, N. W.
Elsie Madeline McKelien	D. C.	724 Fifth Street, N. E.
H. J. McKimsey	Md.	216 Fifth Street, N. E.
Gertrude E. Metcalf	Maine	1643 Marion Street, N. W.
William Mitchell	Wis.	32 E Street, N. E.
Finneas C. Newlands	Nev.	Chevy Chase, Md.
Etheldreda Lord Norris	N. J.	Shigo, Md.
W. Dunlop Owens	D. C.	1203 New Hampshire Ave., N. W.
Lillian Pace	Va.	1208 N Street, N. W.
Elsie Elizabeth Parkinson	Mich.	806 Ninth Street, N. E.
Conrad Magruder Patten	D. C.	3053 P Street, N. W.
Stanton C. Peede	D. C.	The Concord.
Preston Blain Ray	Md.	Forest Glen, Md.
G. Irving Raymond	D. C.	820 North Carolina Avenue, S. E.
Forest Eugene Ricketts	Md.	Derwood, Md.
Rosane A. Robinette	Pa.	301 Maryland Avenue, N. E.
Charles Kibourne Robinson	N. J.	1607 S Street, N. W.
Nathaniel E. Robinson, Jr.	D. C.	Brightwood, D. C.
Samuel H. Rogers	Va.	721 Eighth Street, N. W.
Grace Isabella Ross	Vt.	77 L Street, N. W.
Georgia Sanderlin	N. C.	1008 N Street, N. W.
Henry Hatch D. Sterrett	D. C.	Springland, D. C.
Robert Sterrett	D. C.	Springland, D. C.
William D. Sterrett	D. C.	Springland, D. C.
Geo. E. T. Stevenson	N. Y.	Good Hope, D. C.
Hugh T. Stevenson	N. Y.	Anacostia, D. C.
Christopher G. Storm, Jr.	Wis.	9 R Street, N. E.
Mae Moulton Stover	Va.	The Columbian University.
Albert Rhett Stuart	S. C.	1226 Fifteenth Street, N. W.
Wilbur W. Underwood	D. C.	1407 Tenth Street, N. W.
Clara Mary Upton	D. C.	406 Spruce Street, N. W.
Jesse H. Wilson, Jr.	D. C.	2014 P Street, N. W.

Special Students.

Name	State	Address
Famethoxy Barnes	D. C.	650 Twentieth Street, N. W.
Edward Abbott Beard	D. C.	1305 N Street, N. W.
Frank Lee Biscoe	D. C.	813 Twenty-first Street, N. W.
Amy Louise Concklin	N. Y.	1118 New Hampshire Ave., N. W.
Horace V. Cordy	Pa.	44 R Street, N. E.
Moncena M. Dodge	Maine	940 New York Avenue, N. W.
Margaret Brent Downing	Mo.	Brookland, D. C.
Wm. Lowry Larnham	D. C.	1403 M Street, N. W.
Dean Halford	Mass.	1622 Twenty-second Street, N. W.
Jessie May Harwood	Mass.	410 Second Street, N. E.
Charles T. Hatch	Ind.	1622 Nineteenth Street, N. W.
William A. Hedpin	D. C.	926 B Street, S. W.
Charles G. Hoffman	D. C.	222 E Street, N. W.
Katharine Hosmer	D. C.	1550 L Street, N. W.
H. H. McLendon	N. C.	1608 N Street, N. W.
Sabra M. Mason	Va.	1706 I Street, N. W.
Nora Michener	Ind.	1624 Nineteenth Street, N. W.
H. Sophie Phillips	Va.	1425 Q Street, N. W.
Francis A. Ruggles	D. C.	1224 Seventeenth Street, N. W.
Edward T. Scully		1602 Vermont Avenue, N. W.
Ella Lillian Sherman	D. C.	Cleveland Park, D. C.
Mary Tasker Turner	Mo.	2158 Florida Avenue, N. W.
Elizabeth Warden	Ohio	1515 K Street, N. W.

Students Pursuing Review Studies.

Mary C. Chapin, A. B.	D. C.	1814 Fourth Street, N. W.
H. May Johnson, A. B.	D. C.	5 Grant Place, N. W.

THE CORCORAN SCIENTIFIC SCHOOL.

The Faculty.

THE REV. BENJAMIN L. WHITMAN, D. D.,
President.

CHARLES E. MUNROE, Ph. D.,
Dean and Professor of Chemistry.

THE REV. SAMUEL M. SHUTE, D. D.,
Emeritus Professor of English.

ANDREW P. MONTAGUE, Ph. D.,
Professor of Latin.

J. HOWARD GORE, Ph. D.,
Professor of Geology.

HOWARD L. HODGKINS, Ph. D.,
Professor of Mathematics and Secretary of the Faculty.

LEE D. LODGE, Ph. D.,
Professor of Philosophy.

THEODORE N. GILL, Ph. D.,
Professor of Zoology.

CLEVELAND ABBE, A. M.,
Professor of Meteorology.

HERMANN SCHOENFELD, Ph. D.,
Professor of German.

HARRY KING, LL. B.,
Professor of Drawing.

GEORGE P. MERRILL, Ph. D.,
Professor of Geology and Mineralogy.

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THE COLUMBIAN UNIVERSITY.

ADOLPHUS W. GRELLY.

Professor of Geography.

JOSIAH PIERCE, JR., M. A.

Professor of Drawing and Applied Geometry.

ANDREW F. CRAVEN, PH. D.

Professor of Economics.

LOUIS AMATEIS.

Professor of Fine Arts as Applied to Architecture.

EDWARD FARQUHAR, PH. D.

Professor of History.

FRANK A. WOLFE, PH. D.

Professor of Physics.

F. LAMSON SCRIBNER, B. S.

Professor of Botany.

J. C. HORNBLOWER.

Professor of Architecture.

HANS ZOPKE.

Professor of Mechanical Engineering.

C. F. MARVIN, M. E.

Associate Professor of Meteorology.

ELMER S. FARWELL, C. E.

Associate Professor of Mechanical Engineering.

HENRY SIMPSON.

Associate Professor of Architecture.

EDWARD B. POLLARD, PH. D.

Professor of English.

FELIX FREYHOLD, C. E.

Professor of Civil Engineering.

MARATHON M. RAMSEY, A. M.

Professor of Romance Languages.

HENRY R. PYNE, A. M.,
Assistant Professor of Latin and Greek.

HERBERT L. RICE, M. S.,
Acting Professor of Astronomy.

THEODORE FRIEBUS, Jr.,
Acting Professor of Fine Arts as Applied to Architecture.

Instructors and Assistants.

PETER FIREMAN, Ph. D.,
Instructor in Chemistry.

EMIL H. MEYER,
Instructor in Free-hand Drawing.

T. W. STANTON, A. M.,
Instructor in Paleontology and Stratigraphical Geology.

CLEVELAND ABBE, Jr., A. B.,
Instructor in Physiography.

HARRY T. NEWCOMB, LL. M.,
Instructor in Statistics.

CABELL WHITEHEAD, B. M.,
Assistant in Assaying.

ERNEST L. THURSTON, C. E.,
Assistant in Drawing.

EDWARD A. MUIR,
Assistant in Machine Drawing.

JOSEPH S. MILLS, A. M.,
Assistant in Qualitative Analysis.

POWHATAN W. ROBERTSON,
Assistant in Accounting.

WILLIAM P. HAY, A. M.,
Assistant in Zoology.

THE COLUMBIAN UNIVERSITY.

CHARLES T. SEMPERS, A. M.,
Assistant in English.

H. GRANT HODGKINS, A. B.,
Assistant in Mathematics.

CHARLES E. McNABB, LL. M.,
Assistant in Business Law.

MINOTT E. PORTER, B. S.,
Assistant in Geography.

A. KLAKRING,
Assistant in Topographic Drawing.

THOMAS A. WILLIAMS, M. A.,
Assistant in Botany.

THOMAS J. D. FULLER, B. S.,
Assistant in Architecture.

ALFREDO V. GANA, B. S.,
Assistant in Fine Arts as Applied to Architecture.

C. LE ROY PARKER, M. S.,
Assistant in General Chemistry.

Lecturers.

OTIS T. MASON, Ph. D.,
Lecturer on Anthropology.

H. CARRINGTON BOLTON, Ph. D.,
Lecturer on History of Chemistry.

THOMAS M. CHATARD, Ph. D.,
Lecturer on Chemical Engineering.

WORTHINGTON C. FORD,
Lecturer on Statistics.

GLENN BROWN,
Lecturer on Sanitary Engineering.

HON. JAMES H. ECKELS.

Lecturer on Finance.

CARROLL D. WRIGHT, LL. D.

Lecturer on Socio-Statistics.

LESTER F. WARD, A. M.

Lecturer on Sociology.

Standing Committees of the Faculty.

Committee on Advanced Standing.

Professors MUNROE, HODGKINS, and LODGE.

Committee on Registration of Students.

Professors MUNROE and HODGKINS.

Committee on Library.

Professors FAIRCHILD, GORE, and RAMSEY.

Committee on Equipment of Schools.

Professors WOLFE, LODGE, and HODGKINS.

Committee on Catalogues.

Professors MUNROE and HODGKINS.

The School of Science established by the Trustees and Overseers of The Columbian University as a part of their University system of education is called by the name of W. W. Corcoran in grateful recollection of his many benefactions to the University.

The exercises of the School began Wednesday, September 29, 1897, and are held in the University Building southeast corner of Fifteenth and H streets N. W., which has been constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the Full Courses of study leading to the degree of Bachelor of Science, as described below, or they may take special Courses in any of the Departments.

Candidates for admission to the First Year Course should be prepared in English Grammar, Rhetoric, French Grammar, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free hand and Mechanical Drawing.

The following Courses of Study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements:

COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

FIRST YEAR.*

(Common to all Courses.)

- | | |
|--|--------------------------|
| (1) Chemistry, 1, 6. | 1. Fine Arts, 1. |
| General Chemistry; History of Chemistry. | Free-hand Drawing. |
| (2) Drawing, 1. | 2. Romance Languages, 1. |
| Mechanical and Geometrical Drawing. | French. |
| (3) English, 1, 3. | 3. Mathematics, 1, 2. |
| Rhetoric; English Literature. | Algebra; Geometry. |

COURSE I—GENERAL.

SECOND YEAR.

- | | |
|----------------------------------|-------------------------|
| (2) German, 1. | 4. Mineralogy, 1. |
| (4) Mathematics, 3, 4. | Descriptive Mineralogy. |
| Trigonometry; Analytic Geometry. | (3) Physics, 1. |
| Elective, eight hours a week. | General Physics. |

THIRD YEAR.

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|----------------------------------|----------------|
| (2) Geology, 1. | (2) German, 2. |
| Systematic Geology. | |
| Elective, thirteen hours a week. | |

*Students in Course XI who take Course 2 in Fine Arts, Architectural Drawing, add on to the course.

†The numbers in parentheses give the number of hours or periods per week. The numbers following the subjects refer to the specific topics in the various Departments of the Concord Scientific School.

FOURTH YEAR.

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|---|------------------------------|
| (2) Astronomy, 1.
General Astronomy.
Elective, thirteen hours a week. | (2) Philosophy, 3.
Logic. |
|---|------------------------------|

COURSE II IN CIVIL ENGINEERING.

SECOND YEAR.

- | | |
|--|---|
| (2) Applied Mathematics, 1.
Descriptive Geometry. | (2) German, 1. |
| (2) Drawing, 2, 3.
Topographic | (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. |
| (4) Engineering, 1, 8.
Surveying and Building Con-
struction | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (1) Fine Arts, 2.
Architectural Drawing | (3) Physics, 1.
General Physics. |

THIRD YEAR.

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|--|--|
| (3) Applied Mathematics, 3, 6.
Mechanics and Graphical
Statics | (2) Geology, 1.
Systematic Geology. |
| (1) Astronomy, 2.
Practical | (2) German, 2. |
| (1) Fine Arts, 3.
Architectural Drawing | (4) Engineering, 2, 3, 4. |
| | (2) Mathematics, 5.
Calculus |

FOURTH YEAR.

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|--|---------------------------------------|
| (4) Applied Mathematics, 4, 5.
Hydrodynamics, Strength
of Materials. | (1) Geodesy (1 term). |
| (2) Astronomy, 1.
General Astronomy. | (1) Mathematics, 7.
Least Squares. |
| (1) Chemistry, 13. | (2) Philosophy, 3.
Logic. |
| (4) Engineering, 6, 8, 9, 10, 11.
Structures and Materials of
Engineering. | |

COURSE III—IN ELECTRICAL ENGINEERING.

SECOND YEAR.

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|--|---|
| (2) Applied Mathematics, 1.
Descriptive Geometry. | (6) Mechanical Engineering, 4, 10.
Machine Drawing and Machine Problems. |
| (2) German, 1. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | (6) Physics, 1, 9.
General Physics. Physical Laboratory. |

THIRD YEAR.

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|--|--|
| (2) Geology, 1.
Systematic Geology. | (4) Mechanical Engineering, 5, 8.
Advanced Drawing. |
| (2) German, 2. | (7) Physics, 2, 3, 10, 13.
Electricity. Laboratory. |
| (2) Mathematics, 5.
Calculus. | |

FOURTH YEAR.

- | | |
|--|---|
| (5) Applied Mathematics, 3, 4, 5.
Mechanics and Hydrodynamics, Strength of Materials. | (2) Philosophy, 3.
Logic. |
| (2) Astronomy, 1.
General Astronomy. | (5) Physics, 4, 5, 11.
Theory and Application of Electricity; Thermodynamics; Advanced Laboratory. |
| (1) Chemistry, 13.
Metallurgy of Iron. | |

COURSE IV—IN MECHANICAL ENGINEERING.

SECOND YEAR.

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|--|--|
| (2) Applied Mathematics, 1.
Descriptive Geometry. | (6) Mechanical Engineering, 2, 10.
Machine Drawing; Machine Problems. |
| (2) German, 1. | (2) Mineralogy, 1.
Descriptive. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | (5) Physics, 1.
General Physics. |
| | (3) Physical Laboratory. |

THIRD YEAR.

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|--|--|
| (2) Geology, 1.
Systematic Geology. | (2) Mathematics, 5.
Calculus. |
| (2) German, 2. | (7) Mechanical Engineering, 3, 11.
Machine Drawing. |

FOURTH YEAR.

- | | |
|--|--|
| (5) Applied Mathematics, 3, 4, 5.
Mechanics and Hydrodynamics, Strength of Materials. | (12) Mechanical Engineering, 6, 7, 8, 9.
Elements of Machines; Hoisting Machinery; Designing. |
| (2) Astronomy, 1.
General Astronomy. | (2) Philosophy, 3.
Logic. |
| (1) Chemistry, 13.
Metallurgy of Iron. | |

COURSE V—IN CHEMISTRY (A).

SECOND YEAR.

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|--|--|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (1) Mechanical Engineering, 1.
Machine Drawing. |
| (5) Chemistry, 10.
Laboratory; General Principles. | (2) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | |

THIRD YEAR.

- | | |
|---|--|
| (12) Chemistry, 2.
Qualitative Analysis. | (2) Geology, 1.
Systematic Geology. |
| | (2) German, 2. |

FOURTH YEAR.

- | | |
|--|---|
| (16) Chemistry, 3, 5, 7, 13.
Quantitative Analysis; Assaying; Organic Chemistry; Metallurgy of Steel. | (2) Astronomy, 1.
General Astronomy. |
| | (2) Philosophy, 3.
Logic. |

COURSE VI—IN CHEMISTRY (B).

SECOND YEAR.

- | | |
|--|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. |
| (5) Chemistry, 10.
Laboratory; General Princi-
ples. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

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|---|--|
| (10) Chemistry, 2.
Qualitative Analysis. | (2) Geology, 1.
Systematic Geology. |
| (2) Mathematics, 5.
Calculus. | (2) German, 2. |
| | (3) Physics, 2, 3.
Electricity. |

FOURTH YEAR.

- | | |
|---|--|
| (2) Astronomy, 1.
General Astronomy. | (2) Mathematics, 6, 7.
Differentials and Leas
Squares. |
| (13) Chemistry, 3, 7, 13.
Quantitative Analysis; Or-
ganic Chemistry; Metal-
lurgy of Steel. | (2) Philosophy, 3.
Logic. |

COURSE VII—IN MATHEMATICS.

SECOND YEAR.

- | | |
|--|---|
| (2) Applied Mathematics, 1.
Descriptive Geometry. | (2) German, 1. |
| (2) Civil Engineering, 1.
Surveying. | (3) Mathematics, 3, 4.
Trigonometry; Analytic
ometry. |
| (2) Drawing, 2.
Topographical Drawing. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) Romance Languages, 2.
French. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

- | | |
|--|--|
| (2) Applied Mathematics, 3.
Analytical Mechanics. | (2) History, 1.
American and English. |
| (2) Romance Languages, 3.
French. | (4) Mathematics, 3, 8, 9, 10.
Calculus, Determinants, Qua-
ternions; Analytic Geome-
try of Three Dimensions. |
| (2) Geology, 1.
Systematic Geology. | (3) Physics, 2, 3.
Electricity. |
| (2) German, 2. | |

FOURTH YEAR.

- | | |
|--|---|
| (3) Applied Mathematics, 4, 5. | (2) Philosophy, 3.
Logic. |
| (5) Astronomy, 1, 2, 3.
General and Mathematical
Astronomy. | (1) Physics, 4.
Mathematical Theory of Elec-
tricity. |
| (1) Geology, 1. | |
| (2) German, 2. | |
| (4) Mathematics, 6, 7, 11, 12.
Differential Equations;
Least Squares; Theory of
Equations; History of
Mathematics. | |

COURSE VIII—IN METEOROLOGY.

SECOND YEAR.

- | | |
|---|---|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (2) Meteorology, 1.
Observational. |
| (5) Chemistry, 10.
Laboratory, General Princi-
ples. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1.
General Physics. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. | |

THIRD YEAR.

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|-----------------------------|---------------------|
| (2) Applied Mathematics, 3. | (2) German, 2. |
| Analytical and Applied Me- | (2) Mathematics, 5. |
| chanics. | Calculus. |
| (1) Astronomy, 2. | (2) Meteorology, 2. |
| Practical. | Climatology. |
| (2) Botany, 1. | (3) Physics, 9. |
| Systematic. | Laboratory. |
| (2) Geology, 1. | |
| Systematic Geology. | |

FOURTH YEAR.

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|-----------------------------|---|
| (1) Applied Mathematics, 4. | (2) Mathematics, 6, 7. |
| Hydrodynamics. | Differential Equations; Le-
Squares. |
| (2) Astronomy, 1. | (2) Meteorology, 3. |
| General and Spherical As- | Special Topics. |
| tronomy. | (2) Philosophy, 3. |
| (1) Geodesy, | Logic. |
| Projections. | (3) Physics, 10. |
| | Laboratory. |

COURSE IX—IN GEOGRAPHY.

SECOND YEAR.

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|-----------------------------|-------------------------|
| (2) Applied Mathematics, 1. | (2) Geography, 1. |
| Descriptive Geometry. | Physical. |
| (5) Chemistry, 10. | (3) Mathematics, 3, 4. |
| Laboratory: General Prin- | Trigonometry; Analytic |
| ciples. | ometry. |
| (2) Drawing, 2. | (1) Mineralogy, 1. |
| Topographic. | Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1. |
| | General Physics. |

THIRD YEAR.

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|---|------------------------------------|
| (1) Astronomy, 2.
Practical. | (2) Geography, 2.
Economic. |
| (2) Botany, 1.
Systematic. | (2) German, 2. |
| (4) Engineering, 2, 3, 5.
Surveying. | (2) Mathematics, 5.
Calculus. |
| (2) Geology, 1.
Systematic Geology. | (2) Physics, 2, 6.
Electricity. |

FOURTH YEAR.

- | | | |
|---|-------------------------------------|--|
| (1) Applied Mathematics, 4.
Hydrodynamics and Hy-
draulics. | (1) Geodesy. | (2) Mathematics, 6, 7.
Differential Equations and
Least Squares. |
| (2) Astronomy, 1.
General Astronomy. | (2) Meteorology, 2.
Climatology. | |
| (2) Philosophy, 3.
Logic. | | |
- Elective, seven hours per week.

COURSE X—IN GEOLOGY AND MINERALOGY.

SECOND YEAR.

- | | |
|---|---|
| (2) Botany, 1.
Structural and Systematic. | (3) Mathematics, 3, 4.
Trigonometry, Analytic Ge-
ometry. |
| (2) Civil Engineering, 2.
Topographical Surveying. | (3) Mineralogy, 1, 2.
Descriptive and Determina-
tive. |
| (2) German. | (3) Physics, 1.
General Physics. |

THIRD YEAR.

- | | | |
|---|--------------------|---|
| (10) Chemistry, 2.
Qualitative Analysis. | (2) German. | (2) Mineralogy.
Determinative and Crystallo-
graphic. |
| (2) Geology, 1.
Systematic Geology. | (2) Zoology, 1, 2. | |

FOURTH YEAR.

- | | |
|---|---|
| (2) Astronomy, 1.
General Astronomy. | (2) Philosophy, 3.
Logic. |
| (2) Drawing, 2.
Topographical Drawing. | (1) Meteorology, 4.
Physiography. |
| (2) Economics, 7. | (2) Paleobotany. |
| (2) Geology, 2.
Applied Geology. | (2) Paleozoology. |
| (1) Meteorology, 2.
General Climatology. | (2) Special Lectures on Rock-weathering and Sedimentation.
Field Methods, etc. |

COURSE XI—IN ARCHITECTURE.

SECOND YEAR.

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|---|--|
| (2) Applied Mathematics, 2.
Descriptive Geometry. | (3) Mathematics, 3, 4.
Trigonometry, Analytic Geometry. |
| (3) Architecture, 1, 4.
History; Planning. | (1) Mechanical Engineering, 1.
Machine Drawing. |
| (2) Engineering, 1, 8.
Use of Instruments; Construction. | (1) Mineralogy, 1.
Descriptive Mineralogy. |
| (1) Fine Arts, 3.
Architectural Drawing. | (3) Physics, 1.
General Physics. |
| (2) German, 1. | |

THIRD YEAR.

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|--|--|
| (3) Applied Mathematics, 2, 6, 7.
Stereotomy; Graphic Statics; Mechanics. | (2) Engineering, 9.
Construction. |
| (4) Architecture, 2, 5, 7, 10.
History; Planning; Practice; Inspection. | (2) Fine Arts, 4.
Composition. |
| (2) Economics, 1.
Accounting. | (2) Geology, 1.
Systematic Geology. |
| | (2) German, 2. |
| | (2) Mathematics, 5.
Calculus. |

FOURTH YEAR.

- | | |
|---|--|
| (12) Architecture, 3, 6, 8, 9, 10.
History: Planning, Practice;
Inspection, Heating and
Ventilation. | (1) Chemistry, 13.
(2) Economics, 2.
Business Law.
(1) Engineering, 10.
(2) Philosophy, 3.
Logic. |
| (2) Astronomy, 1.
General Astronomy | |

COURSE XII—IN ECONOMICS.

SECOND YEAR.

- | | |
|---|---|
| (4) Economics, 1, 2.
Accounting and Business Law. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) Geography, 1. | (3) Physics, 1.
General Physics |
| (2) German, 1. | (2) Romance Language, 4.
French. |
| (2) History, 1. | |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Ge-
ometry. | |

THIRD YEAR.

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|--|--|
| (5) Economics, 3, 4, 5.
Finance, Politics and Admin-
istration, Economic Devel-
opment. | (2) Geology, 1.
(2) German, 2.
(2) History, 2.
(2) Philosophy, 1.
(2) Zoology, 1, 2. |
| (2) Geography, 2. | |

FOURTH YEAR.

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|---|---|
| (2) Astronomy, 1.
General Astronomy. | (2) German, 3.
(2) History, 3.
(2) Philosophy, 3.
Logic. |
| (2) Botany, 1. | |
| (5) Chemistry, 10. | |
| (6) Economics, 6, 7, 8.
Statistics; Political Economy;
Sociology. | |

COURSE XIII—IN LANGUAGE AND LITERATURE.

SECOND YEAR.

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|---------------------------------------|------------------------------|
| (2) English, 2, 4. | (4) Mineralogy, 1. |
| (2) German, 1. | Descriptive Mineralogy. |
| (2) Greek, 3; or Latin, 3. | (3) Physics, 1. |
| (3) Mathematics, 3, 4. | General Physics. |
| Trigonometry; Analytic Ge-
ometry. | (4) Romance Languages, 2, 3. |
| | French; Spanish. |

THIRD YEAR.

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|-----------------------|---------------------------------|
| (3) English, 5, 6, 7. | (2) Greek, 4; or Latin, 4. |
| (2) Geology, 1. | 2) History, 1. |
| Systematic Geology. | (6) Romance Languages, 3, 6, 7. |
| (2) German, 2. | French; Spanish; Italian. |

FOURTH YEAR.

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|---|--------------------------------|
| (2) Astronomy, 1. | (2) Latin, 6; or Geography, 1. |
| General Astronomy. | 2) Philosophy, 3. |
| (1) English, 1, 3. | Logic. |
| (2) German, 3. | 2) Romance Languages, 4. |
| (4) History, 2, 3. | French. |
| (2) Latin, 5; or Romance Lan-
guages, 8. | |

SCHEDULE OF LECTURES AND RECITATIONS, 1896-'97.

THE CORCORAN SCIENTIFIC SCHOOL.

47

Hours T. M.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer	German I Greek I Latin I Mathematics Mechanics Physics Chemistry Botany Zoology Astronomy Geology History Literature Art Music Dance Gymnastics Swimming Fencing Boxing Wrestling Baseball Football Basketball Tennis Cricket Hockey Rugby Soccer

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SCHEDULE OF LECTURES AND RECITATIONS, 1896-'97.

Hours P. M.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8 to 9	Algebra, Prop. Mechanics Mechanics of Iron Physics Spanish II. Chancery St.	Architectural Draw- ing, III Astronomy French Language French and Draw- ing II Geometry, Plane Mechanics, Con- struction for Mechan- ics Psychology, I Psychology, II Topography Topographical Sur- veys Botany, II	German I Machine Construc- tion for Mechan- ical Engineering Mechanics Psychology, II Statistics Technical Electric- ity Italian, II.	Advanced Electric- ity Architectural Draw- ing, IV Differential Equa- tions French I Geography Machine Problems Statistics Surveying Medieval History	Algebra, Prop. Geometry I Machine Construc- tion for Mechan- ical Engineering Mechanics of Iron Mechanics of Engi- neering Statistics Machine Problems Psychology, I Spanish II	Italian II Latin I
9 to 10	Geometry, Plane Construction Descriptive Geome- try Economic Develop- ment Machine Construc- tion for Mechan- ical Engineering Mechanics of Iron Mechanics of Engi- neering Spanish I	Algebra, Prop. French III Practical Astron- omy Strength of Mate- rials Topography Machine Drawing II	Building Construc- tion French III Machine Drawing II Properties of Mate- rials	Economic Develop- ment French II Labor Statistics Topographical Sur- veys Machine Problems	Building Construc- tion French II Labor Statistics Machine Construc- tion for Mechan- ical Engineering Psychology, I Spanish I	Portuguese

The books for Architecture will be arranged by Professor of Architecture.

A book for Architecture will be arranged by Professor of Architecture.

A book for Architecture will be arranged by Professor of Architecture.

DEPARTMENTS OF INSTRUCTION.

Anthropology.

DR. MASON, Lecturer.

(See under head of "Graduate School.")

Applied Mathematics.

(See Department of Engineering.)

Architecture.

PROFESSOR HORNBLOWER, Head of Department.

MR. SIMPSON, Associate Professor of Architecture.

MR. BROWN, Lecturer on Sanitary Engineering.

MR. FULLER, Assistant in Architecture.

1. History of Architecture, I, one hour.*
2. History of Architecture, II, one hour
3. History of Architecture, III, one hour.
4. Original Planning and Design (second year).
5. Original Planning and Design (third year).
6. Original Planning and Design (fourth year).
7. Heating and Ventilation, one hour, one term.
8. Sanitary Engineering for Architects, one hour, one term.
9. Inspection of buildings erected or in course of erection.

Astronomy.

ACTING PROFESSOR RICE, Head of Department.

1. General Descriptive Astronomy. Two hours. Young's General Astronomy, with occasional Lectures.
Arrangements have been made for occasional visits to the New U. S.

* Unless otherwise stated, hours per week throughout the year.

Naval Observatory, so that students may be familiarized with the use of large telescopes.

2. Practical Astronomy, one hour.

3. Mathematical and Theoretical Astronomy, two hours.

Theory is taught mainly by Lectures, supplemented by the solution of problems and practical computations.

Botany.

PROFESSOR SCRIBNER, Head of Department
Mr. WILLIAMS, Assistant

1. Structural and Systematic Botany.

The year will be devoted to general organography and morphology of flowering plants and the higher cryptogams, with brief outline review of the remaining groups. *Field excursions* will be given whenever practicable, and the student will be expected to become familiar with the determination of ordinary flowering plants and vascular cryptogams, and to be able to recognize the principal groups at sight. The student will also be instructed as to the proper manner of collecting and preparing plants for the herbarium and directed to begin the preparation of a local herbarium. Two hours.

Text books. Bastin's College Botany; Gray's Manual of Botany of the Northern United States.

Reference books: Gray's Structural Botany; Knowlton, Directions for Collecting Recent and Fossil Plants.

2. Histological and Physiological Botany.

The greater part of the year will be devoted to lectures and laboratory work in histology and physiology. The cutting of sections and staining and mounting of botanical objects will be described and illustrated.

The field excursions will be continued and the study of the more difficult orders or genera of flowering plants, such as Compositae, Gramineae, and Carex, will be taken up. Attention will also be given to the lower groups, as mosses, algae, and fungi, and the important characters reviewed.

Each student will be required to collect, prepare, and mount an herbarium of one hundred species of local plants, which must be properly identified and classified. Two hours.

Reference books: Goodale's Physiological Botany; Bennett and May, Cryptogamic Botany; Bessey's College Botany; Westcott and Schneider, A Compendium of General Botany.

3. Special Course for Teachers in the Public Schools.

This course will include lectures on various botanical subjects of popular as well as scientific interest, with suggestions as to how such work can be best presented to the pupils of the public schools. Courses of reading will be outlined and simple lines of experimentation given, with hints on methods of working them out in the school room. One hour.

Chemistry.

PROFESSOR MUNROE, Head of Department.

DR. BOLTON, Lecturer on the History and Philosophy of Chemistry.

DR. CHATARD, Lecturer on Chemical Engineering.

MR. WHITTEHEAD, Assistant in Assaying.

DR. FIREMAN, Instructor in Chemistry.

MR. MILLS, Assistant in Qualitative Analysis.

MR. PARKER, Assistant in General Chemistry.

1. General Chemistry, a series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. Chemical practice and Qualitative Analysis, a laboratory course in the manufacture of chemical substances, the study of their properties and reactions, and of the means employed for their detection and identification. Twelve hours.

Text-books: Clowe's and Fresenius's Qualitative Analysis.

3. Quantitative Analysis, a laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius's and Thorpe's Quantitative Analysis.

4. Technical Analysis and Industrial Processes, a lecture and laboratory course in which the elements of chemical engineering will be taught, and special attention will be given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips's Engineering Chemistry, Wagner's Chemical Technology.

5. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours a week for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

6. History and Philosophy of Chemistry, an illustrated lecture course offered gratuitously to all students in the Department and given at irregular intervals.

7. Chemistry of the Carbon Compounds, a laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text book: Cohen's Practical Organic Chemistry.

8. Modern Methods of Iron and Steel Analysis, a laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text book: Blair's Chemical Analysis of Iron.

9. Chemistry of Explosive Substances, a laboratory and field work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

10. Experimental Chemistry, a laboratory course for the study of the principles of chemistry and the chemical properties of bodies. Five hours.

Text-book: Cooke's Laboratory Practice.

11. Advanced course in Organic Chemistry, Bernthsen.

12. Lectures on the Principles of Analysis.

13. Metallurgy of Iron and Steel, a course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Columbian Medical School.

Special attention is paid in all courses to the methods of making notes. Students are given practice in making abstracts. All are required to consult the current periodicals and works of reference. Advanced students will prepare a bibliography on some special topic.

Drawing.

PROFESSOR KING, Head of Department and Lecturer on Mechanical Drawing.

MR. THURSTON, Assistant in Mechanical Drawing.

MR. KLAKRING, Assistant in Topographic Drawing.

This Department has been organized for the special instruction in training of superior draughtsmen.

The course of instruction, in conjunction with those of the other departments of the School, will include all branches of drawing practiced in the departments of the Government, special attention being given to the technical character of Patent Office drawings as required by the rules of that office: to map-making and to lettering, and will consist in the main of practical demonstrations on the blackboard and on the individual drawing-board of the student.

1. Mechanical Drawing.
2. Topographic Drawing.
3. Topographic Drawing as Applied in Architecture.
4. Lettering as Applied to Topographic and Mechanical Drawings.

Each of these courses will occupy two hours a week and will be supplemented by practice.

Economics.

PROFESSOR CRAVEN, Head of Department.

DR. WRIGHT, Lecturer on Statistics.

MR. WARD, Lecturer on Sociology.

MR. FORD, Lecturer on Statistics and Finance.

MR. ECKELS, Lecturer on National Banking.

MR. ROBERTSON, Instructor in Accounting.

MR. McNABB, Instructor in Business Law.

MR. NEWCOMB, Instructor in Statistics.

1. FINANCE.

1. Advanced Accounting and Auditing
First Year: Private, Individual, and Corporation Business. Two hours.
Second Year: Public, Official, State, and Municipal Business. Two hours.

2. Business Law.

First Year: Practical Business, Commercial and Banking Law.

I.—Business Law in general:

Principles on which it rests.

II.—The Law of Contracts:

a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.*b.* Commercial Paper:

Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.

III.—Descent and Distribution of Property:

Duties of Executors, Administrators, Trustees, Guardians, etc.

IV.—Business Forms and Practice. Two hours.

Second Year: Financial, Industrial, and Commercial Legislation of the United States. Two hours.

3. THE HISTORY AND SCIENCE OF—

(1) PRIVATE FINANCE: Barter, Exchange, Money, Coinage, Credit and Banking. Two hours, 1897-'98.

(2) PUBLIC FINANCE: In ancient, mediæval, and modern times. A comparison of the present systems of Germany, France, England, and the United States. Two hours, 1898-'99.

II.—POLITICS AND ADMINISTRATION.

4. I.—Civil Government in the United States. Two hours, 1897-'98.

II.—Theories and Forms of Government. Two hours, 1898-'99.

III.—ECONOMIC DEVELOPMENT.

5. I.—The History of Economic Growth among Ancient, Mediæval and Modern Peoples, down to A. D. 1500. Two hours, 1897-'98.

II.—Modern Industrial and Commercial Changes since A. D. 1500. Two hours, 1898-'99.

STATISTICS

6. I.—Comparative. A Study of the Numerical Relations of Society. Two hours, 1897-'98.
 II.—RAILWAY TRANSPORTATION. History and Development of Railways. Theories of Rates, Combinations, State Ownership or Control. Two hours, 1898-'99.

POLITICAL ECONOMY

7. I.—An Historical Introduction to the Study of Political Economy. Two hours, 1897-'98.
 II.—The Principles of Economics. Two hours, 1898-'99.

SOCIOLOGY

8. I.—The Principles of Sociology. Two hours, 1898-'99.
 II.—A Study of Individualism, Socialism, and of the Practical Social Problems of State and Municipal Administration in Respect to Sanitation, Charities, Crime, etc. Two hours, 1897-'98.

Engineering and Applied Mathematics.

PROFESSOR FREYHOLD, Head of Department.

———, Assistant in Civil Engineering.

APPLIED MATHEMATICS

1. Descriptive Geometry, 2 hours, and Constructive Exercises.
2. Stereotomy, 1 hour, and Exercises. References: Warren, Adhémar.
3. Analytical and Applied Mechanics, 2 hours.
4. Hydrodynamics, Hydraulics, and Pneumatics, 1 hour.
5. Strength of Materials and Theory of Elasticity, 2 hours.
6. Graphical Statics, 1 hour, and Designing Exercises.
7. Mechanics of Construction for Architects, 1 hour.

CIVIL ENGINEERING.

1. Land Surveying, with theory and use of Instruments, 2 hours; Practical exercises and Field-work in the Spring.
2. Topographical Surveying, 2 hours, with Field Practice.
3. Railroad and Highway Engineering and Hydraulic Engineering (Canals, Rivers, and Harbors, Irrigation and Drainage), 1 hour, and Constructive Exercises.
4. Engineering Field-work and Railroad Surveying, 2 hours.
5. Hydrographic Surveying and Exercises, 1 hour, 1 term.
6. Masonry, Wooden, and Steel Structures, 1 hour, and Constructive Exercises.
7. Water Supply, Sewerage, and Sanitary Engineering, 1 hour.

BUILDING CONSTRUCTION.

8. Building Construction, 2 hours, and Constructive Exercises.
9. Building Construction, Specifications, and Working Drawings, 2 hours, and Constructive Exercises.
10. Modern Tall Buildings, and the use of iron in buildings, 1 hour.
11. Construction of Plants and Buildings, for Mechanical and Electrical Engineers, 1 hour, and Constructive Exercises.

Constructive Exercises are carried on largely outside of the regular recitation hours.

English.

PROFESSOR POLLARD, Head of Department.
MR. SEMPERS, Assistant.

1. Practical Rhetoric. Text-book for reference: Genung. Frequent exercises in composition and criticism. Two hours a week.
2. History and Grammar of the English Language. Text-book: Lounsbury. One hour.
3. English Literature. Its history, with the study of representative authors. Text-book: Pancoast's Representative English Literature. One hour.

4. American Literature. Course similar to 3. Text-book: Beers or Pancoast, supplemented by reading of selected authors.
5. Anglo-Saxon. Text-book: Bright's Anglo-Saxon Reader. One hour.
6. The Rise of English Literature and Study of Chaucer. One hour.
7. The Rise of the Drama and Study of Shakespeare. One hour.
8. Spenser and English Romanticism.
9. The English Epic with the Study of Milton.
10. English Literature of the Eighteenth Century.
11. Poets and Prose Writers of the Nineteenth Century.
12. A study of great English Essayists, Bacon, Addison, De Quincey, Macaulay, Carlyle.
13. Forensics. Practice in argument and in writing of briefs, together with analysis and criticism of forensic masterpieces.

Fine Arts as Applied to Architecture.

PROFESSOR AMATEIS, Head of Department
 ACTING PROFESSOR FRIEBUS.
 Mr. MEYER, Instructor in Free-hand Drawing.

1. Free-hand Drawing. One hour.
2. Architectural Drawing. One hour. (The five orders.)
3. Architectural Drawing. One hour. (Application of the five orders.)
4. Practice in Designing Monuments, Building, etc., of different styles; also lectures on history of ornaments, painting, and sculpture.

Drawing-rooms are open to students for practice from 10 a. m. to 10 p. m. daily.

Geodesy.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coordinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.

Geography.

PROFESSOR GREELEY, Head of Department.
MR. PORTER, Assistant.

The course of instruction will include Physical and Economic Geography. The methods followed will embrace compilations, collations, and investigations by the students, and courses of lectures by the professor. The latest text-books will be supplemented by the discussion of recent geographical data drawn largely from current scientific and statistical publications of the various Governmental bureaus in Washington.

I. Physical Geography: two hours. Especial attention will be given to such parts of the earth as by fauna and flora, by mineral and vegetable deposits, or by other favoring physical conditions, either contribute most largely or promise future advantages to human welfare. Among other subjects will be considered the material influence of climatic conditions and geological formations as factors in the development of natural resources, modifications and extensions of fauna and flora by human or natural agencies; discoveries of mineral, vegetable, and other deposits; transference of centers of population, industries, and commerce; improvements of natural and creation of artificial transportation routes, and other similar physical features related to human activities.

II. Economic Geography: two hours. The subjects specially studied bear on the most important factors connected with the development of agricultural and mineral resources, the extension and evolution of industrial methods, and their dependence on trade and commerce. The growth or decadence of the more important activities of countries or regions, transitions in industrial methods, modifications of commercial relations, the development of improved transportation routes, will be considered in their relations to each other and their effect on the future development of the world in general and the United States in particular.

Geology and Mineralogy.

PROFESSOR MERRILL, Head of Department.
MR. STANTON, Instructor in Paleontology and Stratigraphical Geology.

1. Descriptive Mineralogy. Two hours for one term.
2. Determinative Mineralogy. Four hours for one term.

GEOLOGY.

1. Systematic Geology: Geognosy, Dynamical, Structural, and Stratigraphical Geology. Two hours. Text book, Leconte's Elements of Geology.

2. Economic Geology. Two hours. Text books, Kemp's Ore Deposits of the United States, Merrill's Stones for Building and Decoration.

Mineralogy is taught as introductory to geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical and includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection showing the minerals not merely in their pure and well crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

The Course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock-formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections, micropetrology. Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under, first, mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; second, the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fletle materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

German.

PROFESSOR SCHOENFELD, Head of Department.

1. Accurate training in elementary grammar (Otis); pronunciation and translation from English into German; exercise in conversation; readings from Andersen's *Bilderbuch ohne Bilder*, Stann's *Immensee*, and some easy German poetry. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc.; extensive translations into German; Gore's *Science Reader*, fourth edition; selected stories; Lessing's *Minna von Barnhelm*. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache*; special preparation for scientific professional work; Helmholtz on Goethe's work in natural history (edition of Seidensticker); Gore's *Du Bois-Raymond's Rectoratsreden*; critical studies of German classics; lectures on German literature. Two hours.

A special course in German training for advanced students in History and Economics is offered. Schoenfeld's *German Historical Prose* and the standard works of German historians and economists will be read. Number of hours subject to arrangement.

Greek.

ASSISTANT PROFESSOR PYNE.

1. White's *Beginner's Greek Book*; Xenophon's *Anabasis*, Book I. Two hours.

2. Xenophon's *Anabasis*, Books II and III; Goodwin's *Greek Grammar* (revised edition); Homer's *Iliad*, Books I, II, and III; Exercises. Two hours.

3. Homer's *Iliad*, Books IV, V, and VI; Herodotus (Seymour); Goodwin's *Greek Grammar* (revised edition); Exercises. Two hours.

4. Lysias; Isocrates; Demosthenes; Goodwin's *Greek Grammar*. Composition. Two hours.

5. A special course will be offered in New Testament Greek. This course is open to all students who have completed course 1 or its equivalent.

Courses 1 and 2 do not count for a degree.

History.

PROFESSOR FARQUHAR, Head of Department.

1. American History. Text books: Eliot, Fiske, Johnston. Reference books: Baneroff, Adams, Von Holst, McMaster. Two hours.
2. Ancient History. Text books: Myers, Merivale. Reference books: Brugsch, Rawlinson, Grote, Arnold, Mommsen. Two hours.
3. Mediaeval History. Text books: Myers, Bryce, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.
4. Modern History. Lecture course. Two hours.
5. English History. Text books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.
6. Bible History. Lecture course. Reference books: Ancient History generally, with Edwabi, Renan. Two hours.

Instruction in this department will be given both by text books and lectures. The method will be rational and comparative rather than precise and mechanical. The course of human progress and development, the growth of institutions and civilization, will receive more emphasis than separate facts. The unequalled facilities for historical research afforded by the Capital of the Nation will be held in view of the classes, and essay-work required.

Latin.

PROFESSOR MONTAGUE, Head of Department.

ASSISTANT PROFESSOR PYNE.

1. Collar and Danell's First Latin Book; Lindsay's Cornelius Nepos. Two hours.
 2. Lindsay's Cornelius Nepos; Caesar; Harkness's Latin Grammar; Exercises. Two hours.
 3. Cicero; Vergil; Harkness's Latin Grammar; Exercises. Two hours.
 4. Ovid; Livy; Harkness's Latin Grammar; Exercises. Two hours.
 5. Horace, Odes and Satires; Cicero, De Amicitia; Tacitus, Germania and Agricola; Harkness's Latin Grammar; Exercises. Two hours.
 6. Juvenal; Pliny; Plautus; Terence. Two hours.
- Courses 1, 2, and 3 are preparatory and do not count for a degree.

Mathematics.

PROFESSOR HODGKINS, Head of Department
Mr. HODGKINS, Assistant.

1. Elementary Algebra: three hours. Bowser's College Algebra.
(B.) Plane Geometry: three hours. Phillips and Fisher's Elements of Geometry.

1. Algebra: three hours. Bowser's College Algebra

2. Geometry: two hours. Phillips and Fisher's Elements of Geometry.

3. Trigonometry: three hours, first term. Crockett's Plane and Spherical Trigonometry.

4. Analytic Geometry: three hours, second term. Bowser's Analytic Geometry.

5. Calculus: two hours. Bowser's Calculus

6. Differential Equations: two hours. Johnson's Differential Equations

7. Least Squares: two hours, ten weeks

A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations

8. Determinants: two hours, ten weeks. Wedd's Determinants. Hamus's Determinants.

9. Quaternions: two hours, ten weeks. Hardy's Quaternions.

10. Analytic Geometry of Three Dimensions: two hours, ten weeks.

11. Theory of Equations: two hours, ten weeks

12. History of Mathematics.

Courses A and B are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 shall have studied plane geometry and through quadratic equations in algebra. But as a thorough and ready knowledge of these elements is so essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, serve as prepara-

tion for the advanced courses described under the Graduate School. Usually only three of these five courses will be given each year.

Mechanical Engineering.

PROFESSOR ZOPKE, Head of Department.

Mr. FARWELL, Associate Professor of Mechanical Engineering.

Mr. MUIR, Assistant in Machine Drawing.

1. Machine Drawing — A course for civil engineering and architectural students. One hour.
2. Machine Drawing — A course for the representation of mechanical machinery (working drawings). Four hours.
3. Machine Drawing — An advanced course for mechanical engineering students. (Assembly drawings, drawing of piping and foundation plans, and of boiler and machine plants). Four hours.
4. Machine Drawing. A course for the representation of electrical machinery (working drawings). Four hours.
5. Machine Drawing — An advanced course for electrical engineering students. (Drawing of electrically driven machinery; wiring and connection diagrams; drawing of electric plants). Four hours.
6. Machine Elements. — Theory and construction of the elements of machines. Four hours.
7. Designing of Machine Elements and Simple Mechanical Machinery. Six hours.
8. Hoisting Machinery. — Two hours, 1 term.
9. Designing of Hoisting Machinery. — Two hours, 1 term.
10. Investigation of Fundamental Machine Problems. — Two hours.
11. Summary of Mechanical Engineering. — Three hours.

The Department of Mechanical Engineering lays main stress upon designing and construction work.

No manual training nor shop practice is offered, but the University considers it a necessity for successful professional work that the student should devote at least a year's time, either before entering or after leaving the school, to the study of practical operations in use in the locksmith, turning, blacksmith, pattern-making, moulding, foundry, and mounting departments of factories with ample facilities.

Mental and Moral Philosophy.

PROFESSOR LODGE, Head of Department.

The method of instruction is, first, inductive, viewing the states of consciousness as complexes of physiological and psychological elements which are to be discriminated, described, and correlated empirically by the student; second, historical, tracing the evolution of philosophic opinions; third, comparative, passing in review the teachings of the greatest thinkers on the problems investigated in the class-room.

1. **Physiological Psychology.** The class is introduced to the study by lectures on man's place in nature. In these the theory of evolution is discussed, and a summary of the arguments for and against it is given. During the first term the class studies Ladd's "Outlines of Physiological Psychology." The text-book for the second term is Porter's "Elements of Intellectual Science." Continued references are made to the writings of Wundt, Ribot, Sir William Hamilton, McCosh, Hall, Dewey, Sully, and James. Two hours.

2. **Rational Psychology.** In the first term Dr. Porter's book is completed. During the second term the results of the recent researches along the lines of psycho-physics are announced and interpreted. Care is taken to define the relations of psychology to pedagogy. Every lecture is followed by a brief oral examination thereon. The class is required to read and summarize in writing the most important articles that appear during the session in the *American Journal of Psychology*. Each student at the beginning of the second term is assigned a subject for investigation. On this subject a satisfactory essay must be written before the end of the session.

The above course will be supplemented by lectures, giving first a summary of ancient and mediæval speculation, and then discussing the essential characteristics, the development, the influence, and the fruits of the philosophic systems of such typical thinkers as Descartes, Locke, and Kant. Two hours.

3. **Logic, Deductive and Inductive.** Text-books: Jevons, Fowler, lectures, with frequent references to Whately, Hamilton, Thomson, and Mill. Special care is taken to develop the psychological basis of logical rules. Two hours.

4. **Moral Philosophy.** The instruction in moral philosophy includes the following features:

I Students are taught to recognize, prescind, and correlate the ethical elements in psychical life.

II The common terminology of ethics is subjected to a rigorous examination, psychological and philological, in order that the precise content of each word, as well as its origin and life-history, may be learned.

III The course of moral speculation is outlined in lectures upon the chief ethical systems from Socrates to Spencer.

IV The class then begins the study of Calderwood's "Handbook of Moral Philosophy," which is used as the basis of instruction during the remainder of the year. Two hours.

Meteorology and its Applications.

PROFESSOR ABBE, Head of Department.

ASSISTANT PROFESSOR MARVIN.

Mr. ABBE, Instructor in Physiography.

The courses in Meteorology are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the Lectures, the Professor will devote one hour a week to a quiz class, in which, by questions and answers, he will seek to remove any difficulties that remain.

Physiography as a branch of Geology is assigned to the department of Meteorology as being that special application of Climatology to Geology whereby the history of the formation of the surface of the earth is explained.

I. OBSERVATIONAL METEOROLOGY.—Personal diary of the weather; general methods of observing without instruments; the rain gauge; the thermometer; the barometer; the nephoscope; the anemometer; hygrometry; actinometry; self-registering apparatus; observations in balloons; observations on mountain stations; meteorological expeditions by land and sea; forms for record; methods of compilation of means and normals; graphic methods of presenting results. Two hours.

2. GENERAL CLIMATOLOGY. — Elements of climate; general distribution over the earth of sunshine, temperature, moisture, pressure, wind, clouds; diurnal, annual, and secular periodicities; variability of local climates; empirical relations between the winds and the other elements; the absorption of radiations by the atmosphere; the theory of probabilities as used in climatology; the computations of the coefficients of the Bessels-Fourier equation; the climatic features of areas of high and low pressure; the relations between ocean currents and the atmosphere; solar and lunar tides; the constituents of the atmosphere and their variations; atmospheric dust; atmospheric moisture; climatic characteristics of oceanic, continental, and littoral regions; sensible temperatures; construction of the atmosphere as affected by plants, animals, altitudes, and the ocean; influence of snow, swamps, and forests. Two hours.

3. SPECIAL SUBJECTS IN METEOROLOGY AND CLIMATOLOGY. — Optical phenomena: (*a*) atmospheric refraction, reflection, and dispersion; (*b*) twilight; (*c*) scintillation; (*d*) blue light of the sky; (*e*) polarization of sky light; (*f*) haloes, glories, and coronas; (*g*) rainbows; (*h*) parhelia; (*i*) red and green suns.

Thermal phenomena: (*a*) selective absorption; (*b*) the bolometer and bolographs; (*c*) radiation from the dust and vapor; (*d*) convection and conduction of heat.

Acoustic phenomena: (*a*) refraction and reflection of sound; (*b*) fog signals; (*c*) thunder; (*d*) meteorite explosions.

Electrical phenomena: (*a*) atmospheric potential; (*b*) the theory of Exner and Trabert; (*c*) the lightning flash; (*d*) auroral light; (*e*) diffuse discharges on mountain tops and within snow storm clouds.

Climate and geology: (*a*) morphology of the earth's surface; (*b*) the atmosphere and ocean; (*c*) climates and geological ages; (*d*) physiography of recent geologic times; (*e*) glacial epoch; lessons from the migrations of birds and the distribution of mammals, fishes, and plants.

Climate and vegetation: (*a*) phenology; (*b*) acclimatization; (*c*) geographic distribution of plants; (*d*) frosts and droughts; (*e*) electroculture; (*f*) climate and crop statistics.

Climate and anthropology.

Climate and hygiene: (*a*) warming and ventilation; (*b*) humidity and sensible temperatures; (*c*) longevity, mortality, and disease.

Climate and engineering: (*a*) hydraulics of rivers; (*b*) prediction of floods; (*c*) wind pressure and strength of buildings; (*d*) wind and wind mills; (*e*) solar motors; (*f*) wind and sailing vessels; (*g*) rainfall, evaporation, and irrigation; (*h*) flying and aerial navigation.

Climate and manufacturing industries. (a) *drying and curing*, operations in preserving fish, meat, fruit, and the manufacture of paper, salt, etc.; *bleaching*, in the manufacture of cotton and linen; *hammity*, in the spinning of silk, cotton; the harvesting of ice.

Atmospheric dust in relation to rain, geology, vegetation, hygiene, manufactures. Montgomery J. Storm's Steam engine and Barnes's Cloudy Condensations.

The relation of the atmosphere to ordnance operations. Two hours.

4. **PHYSIOGRAPHY OR ELEMENTARY PHYSIOGRAPHIC GEOLOGY.** This course is meant to supplement a course in Elementary Geology, and deals with the origin and development of the forms of the earth's surface. This subject includes the life histories of rivers, lakes, mountains, plateaus, plains, coast lines, continents, islands, etc., and a classification of these different features both with reference to all these classes and to each class as such. Consideration is also given to topographic forms in their relation to climate and to human occupation.

Although an elementary knowledge of geology is necessary for the best understanding of the subject of physiography, the lack of this need not be a bar to entering the course, as complete explanations of geological points will be made when wanted.

The course will occupy two hours a week, one hour being devoted to a lecture, and the second hour immediately succeeding the lecture if possible, will be taken up in examination and study of the maps, charts, photographs, and models.

If possible, there will be occasional field lectures in place of laboratory work, when various points in the neighborhood of Washington will be visited and the important features of the local topography pointed out.

Physics and Electrical Engineering.

PROFESSOR WOLFF, Head of Department.

1. General Physics. Three hours. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Text-books: Physical Series, Cambridge Science Manuals.

This course will be fully illustrated by experiments, and practical physical measurements will be made before the class.

2. Elementary Mathematical Theory of Electricity and Magnetism. Three hours for one term. Text-book: S. P. Thompson's Electricity and Magnetism.

3. Dynamo-electrical machinery. Three hours for one term. Text-book: Hawkins and Wallis, *The Dynamo*.

4. Advanced Mathematical Theory of Electricity and Magnetism. Two hours for one term. Lectures based on Gerard's *Electricity and Magnetism*.

5. Dynamo-electric Machinery. Advanced course. Two hours, one term. Text-books: S. P. Thompson, *Dynamo-electric Machinery*, *Poly-phase Currents*.

6. Technical Applications of Electricity. Two hours.

7. Advanced Physics. A mathematical course intended to acquaint the student with the methods of mathematical physics, and as an introduction to the more advanced courses in the Graduate School.

8. Physical Chemistry. A short course with special reference to the modern theories of solutions.

9. Elementary Laboratory Work. Three hours. The exercises will include fundamental measurements and experiments in all branches of Physics.

10. Advanced Laboratory Work for Juniors. Six hours. This will include such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols.

11. Advanced Laboratory Work for Seniors. Dynamo and motor testing, with determinations of their characteristics.

12. Inspection of electric light and power plants. In and around Washington and Baltimore are a number of electric lighting and street-railway plants which afford students of electrical engineering an excellent opportunity of familiarizing themselves with nearly all types of electrical machinery. The visits will be followed by a class discussion.

Occasional meetings will be held at which papers on special subjects will be read by advanced students.

Romance Languages.

PROFESSOR RAMSEY, Head of Department.

FRENCH.

1. As the aim of the instruction during the first year is to give the students a working knowledge of the language, their efforts are centered

upon its grammatical construction and the acquisition of a vocabulary. By the end of the year the class is expected to have mastered the essentials of the grammar and to be able to read easy French prose and to understand it when spoken. To this end the French language is used largely as a medium of instruction. Two hours.

Text books: Chardenal's French Course, Bercy, *La Langue Française* (part I); Halévy, *L'Abbé Constantin* (Super's edition, with notes and vocabulary).

2. Continuation of the study of grammatical constructions, with exercises in composition and conversation. Occasional lectures in French on topics of general interest. Oral drill in sight rendering of English into French. Study of synonyms and idioms. Two hours.

Text-books: Whitney's Practical French Grammar; Lacombe, *Petite Histoire du Peuple Française*; Merimee, *Colomba*; Corneille, *Hernani*.

3. General introduction to the study of French literature. Literary composition and the principles of rhetoric. Lectures on the development of the language and upon prominent periods of the literature. Two hours.

Text-book: Fortier, *Histoire de la Littérature Française*. The texts read, which must be representative of at least three distinct periods, are selected by the class.

4. Advanced prose composition and verbal criticism. Two hours.

Text-books: Howard's *Aids to French Composition*; Meris, *Syntaxe Pratique*; Muzzarelli, *Antonymes de la Langue Française*; Crousé, *Grammaire Française (Cours Supérieur)*; Legouvé, *La Lecture en Action*.

SPANISH.

5. The class is drilled in pronunciation, in hearing the spoken language, in writing from dictation, and in oral and written translation, into Spanish, of carefully graded exercises. The essentials of the grammar are presented, accompanied by practice in reading and conversation. Two hours.

6. More extended presentation of the grammatical structure of the language. Critical and comparative study of syntax and idioms. History and development of the Castilian language and literature. Exercises in literary composition. Reading from standard works of modern Spanish and Spanish-American authors. Two hours.

Text-books: Ramsey's *Text book of Modern Spanish*; Ramsey's *Elementary Spanish Reader*, and Spanish texts, to be selected as required.

The course has special reference to the rapidly increasing intercourse between the United States and the Spanish-American Republics, and as much attention as possible is given to the customs, usages, resources, and products of those countries.

ITALIAN.

7. The class is drilled in pronunciation, in hearing the spoken language, and in translating the exercises of the text-book. After the rudiments of the grammar have been mastered the class is led at once to the reading of the easier prose authors, ending with the "Alberto" of De Amicis. Two hours.

8. Further study of the grammatical construction and the principles of syntax and style. History and development of the Tuscan language and literature. Selections from Dante Alighieri, Petrarca, Boccaccio, Ariosto, Tasso, Goldoni, Pellico, and Manzoni. Two hours.

Text-book: Sauer's Italian Grammar.

Slavonic Languages.

PROFESSOR SCHOENFELD, Head of Department.

An introductory course in the Polish language and literature is offered, as the first and richest among the Slavonic tongues, to be followed by Bohemian in the next scholastic year.

1. A Survey of the Polish Grammar, its phonetic laws, its position among the other languages of the Indo-European family, will be given. Reading of easy prose and poetry.

2. Syntactical structure of the Language, its history and foreign elements. Extracts from Mickiewicz's and Kraszewski's master works will be read. A collection of Polish national songs and legendary poetry will be studied.

These courses are introductory to a future graduate department in the Slavonic languages. Students will consult Morfill's *Story of Poland*, *Geschichte von Polen*, Prof. Carvand, Prof. Röppell, and Dr. Schoenfeld's work on "Higher Education in Poland" (U. S. Bureau of Education), his articles on Slavonic literatures in Johnson's *Universal Cyclopaedia*, and his essays on the "Partition of Poland" and "Polish Elements in German Literature."

Zoölogy.

PROFESSOR GILL, Head of Department.

MR. HAY, Assistant.

1. Elements and General Principles of Zoology. Lectures. One hour.
 2. Natural History of Vertebrates and Invertebrates. Laboratory.
- Text book: Needham's Elementary Zoology. One hour.

Mechanical Laboratory.

A laboratory has been fitted with benches and tools so as to enable students in Chemistry, Physics, and Engineering to construct apparatus needed in their experimental work and researches.

University Library.

The Library is open every day until 10 o'clock p. m. for purposes of study and inquiry, and is supplied with the leading reviews and periodicals.

University Lectures.

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they can secure admission to lectures, other than the law lectures, given in the University Hall, by applying to the Dean.

Examinations.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for *degrees* in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of Commencement."

"Examinations for *prices* in each of the said Departments shall be closed at least three weeks before the end of the scholastic year, and the

names of the successful candidates for either shall be reported at least two weeks before the date of Commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and Instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.

Requirements for Degrees.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close, but this weight varies for laboratory, designing, and field work.

The degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

Scholarships.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which "is to be paid to needy women, students in the Coreoran Scientific School of the Columbian University, at the discretion of the Dean of said School."

Edward T. Foster Scholarship, founded in memory of the first Dean and Professor of Chemistry of the Coreoran Scientific School, consists at present of a fund of three hundred and fifty dollars, the income from which may be paid to some deserving student of chemistry at the discretion of the Dean.

Robertson Scholarship in Accounting, established by Mr. P. W. Robertson during the past year, is awarded on competitive examination, and entitles the holder to free tuition for one year in this subject.

Loan Collection of Text-books.

Through the generosity of Mrs. SUSAN MOORE a collection of text books has been provided, to be loaned to indigent students at the discretion of the Dean.

Prizes.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

SCHMIDT PRIZE.—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a set of Alteneder's Drawing Instruments in a leather case. All students in *full* standing in the second year taking a *full* course in either of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments: Descriptive Geometry *plates* to count seventy-five (75) per centum, and twenty-five (25) per centum to be evenly distributed between the yearly examinations in Descriptive Geometry and the second year mathematical studies taken in common by all four departments.

VEERHOFF MEDAL.—Mr. W. H. Veerhoff offers a gold medal to that student who obtains the best average in the first year of the course in Fine Arts as applied to Architecture.

AMATEIS MEDAL.—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

Annual Tuition Fees.

For single studies, without laboratory work.	\$40 00
For two studies, without laboratory work.	75 00
For three or more studies, without laboratory work.	100 00
Course 10 in Chemical Laboratory, including cost of material and apparatus.	50 00
Laboratory Course in Chemistry (except 10)	100 00
For chemicals used	25 00
Deposit (returnable) for breakage.	25 00
Laboratory Courses in Assaying of Ores and Bullion	40 00
For materials used	20 00

Elementary Course in Physical Laboratory.....	\$20 00
Advanced Course in Physical Laboratory	30 00
Laboratory Course in Mineralogy	60 00
For materials used	10 00

Annual Fees for Full Courses of Study Leading to the Degree of Bachelor of Science.

First year (common to all courses)	\$100 00
Second year, Course 1 laboratory fees extra	100 00
Third " " 1 " " "	100 00
Fourth " " 1 " " "	100 00
Second " " 2	100 00
Third " " 2	100 00
Fourth " " 2	120 00
Second " " 3	130 00
Third " " 3	130 00
Fourth " " 3	120 00
Second " " 4	100 00
Third " " 4	100 00
Fourth " " 4	130 00
Second " " 5	150 00
Third " " 5 (deposit, \$10.00)	150 00
Fourth " " 5 (deposit, \$10.00)	130 00
Second " " 6	150 00
Third " " 6 (deposit, \$10.00)	150 00
Fourth " " 6 (deposit, \$10.00)	100 00
Second " " 7	100 00
Third " " 7	100 00
Fourth " " 7	130 00
Second " " 8	120 00
Third " " 8	130 00
Fourth " " 8	130 00
Second " " 9	100 00
Third " " 9	100 00
Fourth " " 9 laboratory fees extra	150 00
Second " " 10	150 00
Third " " 10 (deposit, \$10.00)	100 00
Fourth " " 10	100 00
Second " " 11	100 00

Third year, Course 11.	..	\$100 00
Fourth " " 11.	..	100 00
Second " " 12.	..	100 00
Third " " 12.	..	100 00
Fourth " " 12.	..	130 00
Second " " 13.	..	100 00
Third " " 13.	..	100 00
Fourth " " 13.	..	100 00
Diploma fee final	..	10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees are payable in advance, unless special arrangement be made with the Treasurer to suit the convenience of the student. Fees for single or for special studies are payable in advance or half-yearly installments. No deduction on account of absence will be made for less time than one-quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study *must* inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. *Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.*

STUDENTS IN THE CORCORAN SCIENTIFIC SCHOOL.

Candidates for Degrees.

Name.	State.	Address.
John Phipps Alexander.....	Tenn.....	724 Seventeenth St., N. W.
Fanny May Allen.....	Md.....	Anacostia, D. C.
Wilbert Baxley Appold.....	Md.....	High Ridge, Maryland.
John Elmer Armstrong.....	N. Y.....	37 R St., N. W.
William Humphrey Aspinwall.....	Penn.....	1305 Riggs St., N. W.
Grant S. Barnhart.....	Penn.....	608 Third St., N. W.
Charles Clay Bayly.....	D. C.....	710 Nineteenth St., N. W.
George Lowman Beeler.....	Ill.....	409 G St., N. E.
William Frederick Biehl.....	Ohio.....	1820 Ninth St., N. W.
Ph. B., University of Georgia.		
LL. B., National University.		
David Holmes Blakelock.....	D. C.....	619 Sixth St., S. W.
James K. Boyd.....	Scotland.....	912 Twelfth St., N. W.
E. Roger Boyle.....	Md.....	Hyattsville, Md.
Eugene Bradbury.....	Va.....	Arlington, Va.
Martha M. Brewer.....	Mass.....	Lanham, Md.
Archibald Webster Brown.....	Md.....	Sligo, Md.
Francis Sharp Browne.....	Ga.....	144 R St., N. E.
Charles Fremont Burnside.....	Wash'n.....	2020 F St., N. W.
Ada Carman.....	N. J.....	1351 Q St., N. W.
William Deakins Cassin.....	D. C.....	1514 Thirtieth St., N. W.
Mary Agnes Clancey.....	D. C.....	2709 P St., N. W.
John Francis Clark.....	D. C.....	422 Florida Ave., N. W.
J. Clarence Cobb.....	D. C.....	Mount Pleasant, D. C.
S. Clark Cross.....	D. C.....	813 Vermont Ave., N. W.
Harry Ormond Cutting.....	Wis.....	907 T St., N. W.
Z. Lewis Dalby.....	Va.....	914 Twelfth St., N. W.
George Jacob Davis, Jr.....	D. C.....	1320 Eleventh St., N. W.
Richard George Doerfling.....	Germany.....	45 Quincy St., N. E.
Aida Mary Doyle.....	Penn.....	1902 Third St., N. W.
Henry White Draper.....	D. C.....	2024 I St., N. W.
Maurice Owen Eldridge.....	Tenn.....	Agricultural Department.
Edmund Percy Ellis.....	D. C.....	121 Eleventh St., N. E.
Charles Russell Ely.....	Md.....	Kendall Green.
A. B., Yale.		

Name.	State.	Address.
Harry Farmer	Iowa	1530 Tenth St., N. W.
William T. Faulkner	Miss.	Treasury Department.
Joaquin Gann	Chili.	Chilean Legation.
Ellen Golden	N. Y.	1825 Sixteenth St., N. W.
Raphael Newman Gwynn	D. C.	17 Iowa Circle.
Roy Bagley Hayes	Wis.	59 N St., N. W.
Emma Pauline Heald	Mass.	927 Westminster St., N. W.
James Edgar Hiatt	Ind.	259 N St., N. W.
Ralph W. Hills	Ohio	1345 Vermont Ave., N. W.
Edle B. Holbrook	Mass.	943 Westminster St., N. W.
Lester Morton Holt	Wis.	433 M St., N. W.
Charles Emerson Hood	D. C.	1017 O St., N. W.
Louis Illner, Jr.	D. C.	1301 Riggs St., N. W.
James Power Keleher	D. C.	409 A St., S. E.
James Henry Kelley	N. Y.	1737 Pennsylvania Ave., N. W.
William M. Lamson	D. C.	Anacostia, D. C.
William Arnold Landvoight	D. C.	131 C St., S. E.
John C. Lewis	Conn.	3009 Cambridge Place.
John Benjamin Lichty	Ill.	Pension Office.
Edward Janney Sidwell Lupton	W. Va.	1330 H St., N. W.
Guy Bennett Marean	D. C.	1900 Lincoln Ave.
Ralph Brewster Marean	Penn.	Brookland, D. C.
Victor Louis Mason	D. C.	203 Seaton St., Eckington.
Thomas H. Means	Va.	Brookland, D. C.
Orton Love Meigs	D. C.	325 Second St., S. E.
Edward Adams Muir	Penn.	542 Third St., N. W.
William Thackara Murphy	N. C.	1802 G St., N. W.
Miles Novotny	Ill.	922 I St., N. W.
Charles Lieberman Parker	D. C.	1425 Corcoran St., N. W.
William Durham Pasco	Fla.	1213 H St., N. W.
Joseph Saxton Pendleton	D. C.	1752 M St., N. W.
John Peters	Wis.	614 Sixth St., N. W.
Charles Preston Phelps	D. C.	113 Third St., N. E.
Gaston Pearson Philip	D. C.	1409 L St., N. W.
Charles Herbert Pierce	Tenn.	1407 Sixth St., N. W.
Alice Pollok	D. C.	1006 N St., N. W.
Edward George Portner	D. C.	1104 Vermont Ave., N. W.
Mary Meade Rahorg	D. C.	1643 Nineteenth St., N. W.

THE COLUMBIAN UNIVERSITY.

Name.	State.	Address.
Richard Galt Rawlings	D. C.	606 Ninth St., N. W.
Fred Ferguson Reisner	Mo.	323 Maple Ave., N. W.
Guy Longfellow Seaman	Iowa.	1119 I St., N. W.
Frank Eugene Skinner	Md.	Takoma Park, D. C.
Frank Hosford Thatcher	Iowa.	717 Sixth St., N. W.
John Ambrose Thompson	D. C.	1720 H St., N. W.
Wilford Ashford Thompson	Iowa.	1448 Corcoran St., N. W.
George Carroll Todd	Va.	3469 P St., N. W.
Edward Briggs H. Tower, Jr.	D. C.	1104 New Hampshire Ave., N. W.
Mayville William Twitchell	N. Y.	712 N St., N. W.
Lincoln Dott Underwood	Ohio	Patent Office.
Francis R. Weller	D. C.	408 C St., S. E.
Henry Clinton Wilson	Md.	1123 Fourteenth St., N. W.
Richard Winkelman	D. C.	1122 Seventh St., N. E.
Henry Charles Workman	Mich.	1419 Twentieth St., N. W.

Candidates for degrees. \$5

Special Students.

Name.	State.	Address.
Arthur B. Adams	Md.	Takoma Park.
Caroline Hough Arms	N. Y.	4525 I St., N. W.
Julius Leopold Arntzen	Mo.	1706 F St., N. W.
Lucy Y. Arriek	D. C.	1131 F St., N. W.
Frederick Hsley Bartlett	D. C.	708 Eleventh St., N. W.
William Maxwell Barton	Va.	345 C St., N. W.
Frederick William Browne	Iowa.	221 First St., N. E.
Herbert Sidney Bryant	D. C.	1605 Connecticut Ave., N. W.
Charles R. Burr	D. C.	Anacostia, D. C.
Edgar Bassett Culvert	Ill.	Weather Bureau.
Harriet Louise Cameron	Minn.	250 Ninth St., N. E.
Ethel Theresa Camp	D. C.	2118 I St., N. W.
Willis W. Case	D. C.	156 A St., N. E.
Philip Hunter Cass	Neb.	221 E St., N. W.
Theodore P. Caulkins	Idaho	
Edward MacKay Chace	Md.	Berwyn, Md.

Name.	State.	Address.
George V. Chandler	D. C.	213 C St., S. E.
Annie Chipman	D. C.	435 Massachusetts Ave., N. W.
Albert Adsit Clemens	Cal.	1443 Corcoran St., N. W.
Lewis C. Conwell	Iowa	3642 Thirteenth St., N. W.
W. E. Cotton	Iowa	624 Eleventh St., N. E.
George Henry Davis	Mass.	1705 Thirteenth St., N. W.
Mary Owen Dean	D. C.	618 Massachusetts Ave., N. W.
A. B. Woman's College, Balt.		
Cecilia Pinkney Dulin	D. C.	2029 O St., N. W.
Morrill Dunn	Maine	25 Lanier Place, N. E.
William A. Edwards	Ga.	1300 Q St., N. W.
Stanley W. Finch	N. Y.	921 P St., N. W.
Frank D. Fletcher	N. Y.	1700 Fourteenth St., N. W.
Max Frank Foerster	Minn.	1395 O St., N. W.
Ella May Ford	Va.	63 New York Ave., N. E.
Edward Martin Friery	D. C.	1307 M St., N. W.
Harry Summers Garner	Penn.	State Department.
Irene Gibson	Mo.	Document Office
Anne May Goding	D. C.	1218 Sixth St., N. W.
Herman Grimes	Va.	Alexandria, Va.
Percival Hall	D. C.	Kendall Green, D. C.
Robert F. Halpin	N. Y.	756 Sixth St., S. E.
Wilmer H. Hampton	Va.	1402 Sixth St., N. W.
F. W. Hart	D. C.	
Kate M. Hayden	Md.	1313 Riggs St., N. W.
John Arnold Heydler	N. Y.	230 X St., N. W.
William Eldridge Hillyer	Fla.	412 A St., S. E.
Charles Wendell Holmes	Md.	220 Eighth St., S. W.
John R. Hudson	Ga.	1216 O St., N. W.
William Vans Edmundson Jacobs	Md.	1224 Fourteenth St., N. W.
Philip M. Jullien	D. C.	Brookland, D. C.
William Houston Kerr	Mo.	1328 W St., N. W.
Dorothy Newton Knight	D. C.	1106 Maryland Ave., S. W.
Stephen E. Kramer	Ga.	1512 Thirteenth St., N. W.
Sanny Emma Kuhlmann	Mo.	1218 Sixth St., N. W.
William John La Varre	Ga.	244 Delaware Ave.
Edith Leetch	D. C.	1409 Thirty-first St., N. W.
Annie Johnston Lewis	N. C.	1507 Vermont Ave., N. W.

Name.	State.	Address.
Joseph Ewing Macfarland.....	Penna.....	1727 F St., N. W.
Euphemia Macfarlane.....	D. C.....	920 Sixteenth St., N. W.
Eva A. Marvin.....	D. C.....	1923 Thirteenth St., N. W.
Paul Bishop McConville.....	Ohio.....	1921 K St., N. W.
Mrs. Charles McGilley.....	D. C.....	718 Tenth St., N. W.
Lizzie McIntire.....	D. C.....	235 First St., N. E.
Margaret Jane Merrill.....	D. C.....	1430 Eighth St., N. W.
Thomas Sherlock Merrill.....	D. C.....	416 T St., N. W.
Jefferson Middleton.....	D. C.....	1214 T St., N. W.
W. Roy Mitchell.....	D. C.....	920 N St., N. W.
Charles Allyn Moore.....	D. C.....	529 Florida Ave., N. W.
John T. Moylan.....	D. C.....	1413 Pennsylvania Ave., N. W.
Robert Mason Nalle.....	Cal.....	38 C, Post Office Dept.
Edward Rogers Noyes.....	D. C.....	500 Maryland Ave., S. W.
Charles R. Oldberg.....	D. C.....	2712 Fourteenth St., N. W.
Louise Park.....	Mich.....	1421 Twentieth St., N. W.
Clarence Le Roy Parker.....	N. Y.....	137 Carroll St., S. E.
Thomas Banks Perkins.....	D. C.....	1935 Thirteenth St., N. W.
Francis Elmer Phelps.....	Md.....	200 East Capitol St.
Julian Irving Pierce.....	Mich.....	101 G St., N. W.
Cora Henrietta Pimper.....	D. C.....	1226 Thirty-first St., N. W.
Katherine May Raber.....	Ohio.....	1914 Harewood Ave., N. W.
George William Rea.....	D. C.....	1947 Vermont Ave., N. W.
Mark Riley.....	Texas.....	1821 G St., N. W.
Margaret Bullock Robinson.....	D. C.....	1701 Tenth St., N. W.
Henry Cowles Rucker.....	Va.....	214 E St., N. W.
Franklin Augustus Ruggles.....	D. C.....	1224 Seventeenth St., N. W.
Arthur B. Russ.....	Maine.....	9 Ninth St., S. E.
William Henry Russell.....	Penn.....	1807 H St., N. W.
Naohisa Sakaguchi.....	Japan.....	1300 Vermont Ave.
Salvador Sanders.....	D. C.....	538 Eleventh St., S. E.
George Conrad Schafer.....	D. C.....	439 Sixth St., S. W.
Andrew J. Schwartz.....	W. Va.....	16 I St., N. W.
Alfred Henry Sefton.....	D. C.....	329 First St., N. E.
Juliet G. Shearer.....	Penn.....	1216 H St., N. W.
Ernest Lincoln Shepard.....	Mich.....	1312 Twelfth St., N. W.
Abbie Mills Sisson.....	Ohio.....	440 K St., N. W.
John Nisbet Smith.....	D. C.....	1602 Thirteenth St., N. W.

THE CORCORAN SCIENTIFIC SCHOOL.

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Name	State	Address
Minnie Rosa Snyder	D. C.	1011 M St., N. W.
Arthur Prince Spear	D. C.	2050 Fourteenth St., N. W.
John S. Stump	D. C.	1528 I St., N. W.
Josephine Sullivan	N. Y.	939 Virginia Ave., N. W.
William Francis Sullivan	D. C.	930 Delaware Ave., N. E.
Alexander Summers	Tenn.	1223 Thirteenth St., N. W.
V. C. Tasker	Md.	214 Eleventh St., N. E.
Charles Newton Thompson	Va.	943 Virginia Ave., S. W.
Juliette H. Thompson	D. C.	1720 H St., N. W.
Frederick Tvers	Kans.	825 Thirteenth St., N. E.
Charles Cornelius Wagner	D. C.	320 Eighth St., N. E.
William Lincoln Webster	D. C.	21 Virginia Ave., S. W.
Williams Welch	S. C.	1119 I St., N. W.
Sara West	Germany	205 G St., N. W.
Mabel Whitecomb	Kans.	208 T St., N. W.
Mrs. A. P. Wood	D. C.	216 C St., S. E.

Special students 107
 Total 192

THE GRADUATE SCHOOL.

Faculty.

THE REV. BENAIHAH L. WHITMAN, D. D.,
President.

CHARLES E. MUNROE, Ph. D.,
Dean and Professor of Chemistry.

THE REV. ADONIRAM J. HUNTINGTON, D. D.,
Professor of Greek.

THE REV. SAMUEL M. SHUTE, D. D.,
Emeritus Professor of English.

ANDREW P. MONTAGUE, Ph. D.,
Professor of Latin.

J. HOWARD GORE, Ph. D.,
Professor of Mathematics.

LEE D. LODGE, Ph. D.,
Professor of French and Political Philosophy and Secretary of the
Faculty.

D. KERFOOT SHUTE, A. B., M. D.,
Professor of Anatomy.

THEODORE N. GILL, Ph. D.,
Professor of Zoölogy.

CLEVELAND ABBE, A. M.,
Professor of Meteorology.

HERMAN SCHOENFELD, Ph. D.,
Professor of German.

THE REV. J. MACBRIDE STERRETT, D. D.,
Professor of Philosophy.

THE GRADUATE SCHOOL.

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EDGAR FRISBY, A. M.,
Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,
Professor of Philosophy.

EMIL A. DE SCHWEINITZ, Ph. D.,
Professor of Bio Chemistry.

FRANK W. CLARKE, S. B.,
Professor of Mineral Chemistry.

HARVEY W. WILEY, Ph. D.,
Professor of Agricultural Chemistry.

THE REV. FRANK H. BIGELOW, A. M.,
Professor of Solar Physics.

GEORGE P. MERRILL, Ph. D.,
Professor of Geology.

HOWARD L. HODGKINS, Ph. D.,
Professor of Mathematics.

EDWARD FARQUHAR, Ph. D.,
Professor of Ancient and Church History.

H. CARRINGTON BOLTON, Ph. D.,
Professor of Bibliography and Bibliology.

LOUIS AMATEIS,
Professor of Fine Arts as Applied to Architecture.

FRANK A. WOLFE, Ph. D.,
Professor of Electrical Engineering.

E. LAMSON SCRIBNER, B. Sc.,
Professor of Botany.

JOSEPH C. HORNBLLOWER,
Professor of Architecture.

HANS ZOPKE,
Professor of Mechanical Engineering.

THE COLUMBIAN UNIVERSITY.

C. F. MARVIN, M. E.,
Associate Professor of Meteorology.

ELMER S. FARWELL, C. E.,
Associate Professor of Mechanical Engineering

MARATHON M. RAMSEY, A. M.,
Professor of Romance Languages

ANDREW F. CRAVEN, Ph. D.,
Professor of Economics.

ALEXANDER S. CHRISTIE, LL. M.,
Professor of Mathematical Physics.

EDWARD B. POLLARD, Ph. D.,
Professor of English.

CHARLES C. SWISHER, Ph. D.,
Professor of American and English History.

FELIX FREYHOLD, C. E.,
Professor of Civil Engineering.

OTIS T. MASON, Ph. D.,
Lecturer on Anthropology.

Board of Directors of University Studies.

THE REV. BENAIHAH L. WHITMAN, D. D., President.
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D. KERFOOT SHUTE, A. B., M. D., Professor of Anatomy.
J. HOWARD GORE, Ph. D., Professor of Mathematics.
LEE D. LODGE, Ph. D., Secretary, and Professor of French and Political Philosophy.
HERMANN SCHOENFELD, Ph. D., Professor of German.
THE REV. J. MACBRIDE STERRETT, D. D., Professor of Philosophy.
THE REV. FRANK H. BIGELOW, A. M., Professor of Solar Physics.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The Fifth Session will begin Wednesday, September the 29th, 1897.

The School will be opened each year with a public address by a member of the Faculty.

Degrees.

The degrees of Master of Arts (A. M.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the Graduate School under such regulations as may be established from time to time by the Board of Directors; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors of University Studies.

The Masters' Degrees.

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis.

Engineering Degrees.

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, and Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

Doctors' Degrees.

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in the study at this University of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography embodying the results of original research in their major subject, which theses they shall be prepared to defend before a board of experts.

Fees.

The matriculation fee of candidates for any degree conferred in this School is ten dollars.

The annual fee for instruction and direction of candidates for Masters' degrees is thirty dollars.

The annual fee for instruction and direction of candidates for an Engineering or a Doctor's degree is ninety dollars.

Where laboratory courses are taken, whether for a Master's, an Engineering, or a Doctor's degree, the fee in excess of the above mentioned fees will be fixed by the Corporation.

The fee for a diploma is ten dollars.

Commencement.

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

Theses.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official Thesis Paper can be purchased from the Treasurer of the University.

All theses must be presented to the Dean not later than May 20.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected

to have their theses printed as early as practicable after graduation and to present fifty copies of the printed thesis to the University through the Dean, to be distributed among learned institutions.

Final Examinations.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for *degrees* shall close at least five weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least three weeks before the date of the commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified to the Dean of the School (proposing to hold an examination) by the Treasurer."

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

Courses of Study in the Graduate School.

The following courses are offered to students in the Graduate School. Candidates for the degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

English.

PROFESSOR POLLARD

1. Old English, with special study of Beowulf
2. Middle English, with critical study of Chaucer
3. Gothic, with an introduction to Germanic Philology.
4. Research courses in special authors or in special periods and in the philosophic history of English or American literature. These courses may include study of such authors as Shelley, Browning, Tennyson, Carlyle, Arnold, Emerson, Lowell, and such movements as are implied in the terms "Classicism," "Romanticism," "Transcendentalism."

Greek.

PROFESSOR HUNTINGTON.

To candidates for the Master's Degree one of the following courses is offered:

1. Herodotus and Thucydides.
2. Homer (parts of the Iliad and Odyssey not read in the undergraduate course) and the Lyric Poets.
3. The Attic Orators.

To candidates for the degree of Doctor of Philosophy two of the following courses are proposed:

- I. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.
- II. The Tragic Poets.
- III. Plato or Aristotle.

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also in Greek Composition, in the Grammar, Philosophy, and Literature of the language, and in Greek History and Antiquities.

Latin.

PROFESSOR MONTAGUE.

Three courses are offered, and selections are made from those works of the authors named below which are not usually read by undergraduates:

1. Plautus, Cicero, Tacitus.
2. Terence, Livy, Pliny the Younger.
3. Lucretius, Catullus, Seneca, Justinian (Institutes).

In connection with each course the following subjects will be studied

- I. Fragments of Early Latin; Latin Inscriptions (Allen).
- II. Roman Versification (Platner).
- III. The History of Roman Literature (Crittwell).
- IV. Critical Study of Syntax (Peters; Roby).
- V. Latin Composition (Translations from prose authors to be rendered without preparation into Latin).

VI. Monthly Essays in Latin upon the authors and their times.

VII. Papers upon the peculiarities of authors and upon the obligations of modern to ancient writers, and abstracts of works are assigned.

VIII. Review of Roman History: Study of Epochs.

IX. Roman Antiquities (Dr. Smith; Rich.).

X. Comparative Philology.

XI. An exhaustive bibliography of each of the authors read.

For Master of Arts, any one course; for Doctor of Philosophy, any two courses.

Romance Languages.

PROFESSOR RAMSEY.

FRENCH.

The following three courses are offered in French literature, dealing with the three most prominent epochs of its history prior to the Revolution:

1. Francis I (1515-'47) and the Renaissance.

2. Henry IV (1589-1610).

3. Louis XIV (1643-1715).

In each of these courses the condition of the country at the period in question is studied (largely from French sources), and the important writers are made the subjects of special investigation, the effort throughout being to correlate details and to seek a general tendency of the literary movement.

4. Modern French Syntax and Lexicology.

This course takes up the language at the point where the grammatical text-books leave it. The broader principles of the use and arrangement of words, the expansion and change of their meaning, and the production of new words from material already existing in the language are illustrated by a textual study of the modern masters of French style.

SPANISH.

1. Spanish Literature of the Eighteenth Century.

A study of the revival of culture following the War of the Spanish Succession. A general acquaintance with the culmination of Spanish literature in the Golden Era, and the subsequent decline is an implied prerequisite.

2. Spanish Poets of the First Half of the Nineteenth Century.

While this course is made as comprehensive as possible, it naturally

centers upon Quintana, Espronceda, Angel de Saavedra, Zorrilla, and Camponor.

3. Contemporary Spanish Fiction.

A comparative study of Valera, Pereda, Pérez Galdós, and Palacio Valdés, involving the tenets of modern literary criticism in Spain.

French Philosophy.

PROFESSOR LODGE.

1. *a.* A Summary of Greek and Roman Philosophy, with a view to establishing the continuity of French thought.
Weber's *Histoire de la Philosophie Européenne*.
b. Germinal Forms of French Philosophy, implicit in the Literature of France before the Seventeenth Century.
c. Mediæval French Philosophy.

2. Descartes. The Evolution of Cartesianism, and Influence of Descartes on Modern Thought.

3. The Eighteenth Century: Voltaire; Condillac; l'Encyclopédie.

4. The Nineteenth Century: Cousin and Eclecticism; Comte and Positivism; Recent Philosophy; Spiritualistic, Jouffroy, Jules Simon, Janet; Empirical, Ribot.

5. French Theory of the State: La Boétie, Bodin, Voltaire, Rousseau, Montesquieu.

Students taking courses in French speculative philosophy are advised to take also one or more of the courses in German Philosophy offered by Dr. Sterrett.

6. The History of Civilization in France, based upon the works of the standard historians of France, particularly Guizot, Michelet, and Taine. Students in this course must be able to read the French of Villehardouin, Joinville, Froissart, and Commynes.

The completion of any one of the above courses will entitle the student to the degree of Master of Arts, and the completion of any two will be accepted as a major subject for the degree of Doctor of Philosophy.

In all these graduate courses constant use will be made of the valuable sources of original research which are accessible to students in the libraries of the several Departments of the Government and of Congress.

German and Continental History.

PROFESSOR SCHOENFELD

1. Literary Awakening in Germany in the time of Frederick the Great; critical study of the literary centers, Leipzig, Zürich, Berlin; the literary revolution and the Illuminati; critical investigation of Klopstock's Odes and Wieland's Oberon.

2. History of the Second Classical "Blüteperiode" to the time of Schiller's and Goethe's intimate friendship (1795); detailed investigation into Lessing's *Literaturbriefe*, *Laokoon*, and *Hamburgische Dramaturgie*.

3. Literature of the Renaissance in Germany; influence of the Italian and French Renaissance upon the same (with special reference to Georg Voigt, Janssen, Burckhardt, L. Geiger).

4. History of the Middle Ages from the time of the evolution of European States to the rise of the Hohenstaufen Emperors (selections from the historical sources will be read and interpreted).

5. The Political Awakening in the Eighteenth Century; Causes of the French Revolution and the Napoleonic Empire.

6. The Annihilation and Reconstruction of Prussia (H. von Treitschke); the Building up of the Modern German Empire (H. von Sybel).

The archives of the National Capital will be utilized for purposes of research.

Ancient and Church History.

PROFESSOR FARQUHAR

1. Bible History. Frequent references will be made to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors will be carefully considered, and the relations of Athenian to modern civilization will be pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors will be consulted, and the transition from the ancient to the modern civilization will be followed.

4. History of Christianity. Study of the development of the church,

and its relation to the general progress of mankind. Frequent references will be made to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

American and English History.

PROFESSOR SWISHER.

AMERICAN HISTORY.

1. ERA OF EXPLORATION AND DISCOVERY. — Theories in respect to early settlements and aboriginal population of the North American Continent based upon Archeology, Ethnology, and Tradition.
2. COLONIAL HISTORY. — Social, territorial, and commercial conditions of the English Colonists; Legal and political status of the Colonies as conceived by Parliament; Conflicts with the spirit of Independence developed by the environment of the Colonists; Union achieved in rebellion; Independence in revolution.
3. CONSTITUTIONAL HISTORY OF THE UNITED STATES. —
 - a.) The history of the Constitutional principle traced through the early Colonial charters and "the Articles of Confederation" until formulated finally in the Constitution of 1789.
 - b.) Construction of the Constitution developed under party issues from the first administration of Washington through the period of division and reconstruction.
4. THE HISTORY OF AMERICAN DIPLOMACY. — This course undertakes a careful study from original sources of the more important international controversies to which the United States have been a party, from the diplomacy of the Revolution to the report of the Venezuela Commission under President Cleveland. Especial attention will be given to the history of arbitration as a means of settlement in international disputes.
5. THE RISE AND FALL OF THE SLAVE POWER. — Slavery as a factor in Colonial history; Impetus given to the system by the Constitution of 1789. Period of annexation and conquest; The causes and consequences of the Mexican war.
6. The History of the American people from 1765 to 1895.
7. The Spanish-American States.

ENGLISH HISTORY.

1. **ENGLISH CONSTITUTIONAL HISTORY.** — This course seeks to explain the present working of the English political system from a survey of the whole field of English history. It will review in detail—

a. Early Saxon institutions as they reappear successively after Norman and Tudor absolutism and finally assert themselves under the later Stuarts.

b. Party government as developed under the Whig oligarchy of the revolution and during the reign of George III until the final triumph of popular government by the Reform act of 1832.

2. **HISTORY OF ENGLISH FOREIGN POLICY.** — England as a continental power; The policy of Wolsey as realized under Cromwell and William of Orange; Struggle for the balance of power transferred to the seas; England and the Eastern question.

3. **ENGLAND AS AN EMPIRE:** Evolution of the imperial idea. The foundation of the Empire from the Conquest of Jamaica to the Battle of Trafalgar. The Empire as modified by American History. The Political Situation in Canada, Australia, and South Africa.

4. **THE ENGLISH IN INDIA.** — Condition of the peninsula during the Mogul Empire; Establishment of British Supremacy. The Presidencies and the Native States; Strength and weakness of England's position in the Far East.

5. **BRITISH HISTORY** from the Roman settlements to the present time.

6. **ENGLAND DURING THE NINETEENTH CENTURY:** A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation will be arranged at the weekly meetings of the seminars of American and English history.

Philosophy.

PROFESSOR STERRETT.

1. Aristotle's Ethics and Politics.
2. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.
3. The Ethics of Kant and Hegel's Rechtsphilosophie.
4. Kant's Critique of the Pure Reason and his Critique of the Judgment.

5. Hegel's *Logik* and *Philosophie des Geistes*.
6. The Philosophy of Religion: Hegel and Schleiermacher.
7. The Philosophy of History.

Any one of these courses may be taken for the Master's degree. Any two of them will constitute a major subject for the Doctor's degree.

Any other desired courses in Ethics and Philosophy may be arranged for with Professor Sterrett.

PROFESSOR HARRIS.

Dr. Harris will coöperate with Dr. Sterrett in carrying out additional courses.

8. Philosophy of History, and
9. The History of Philosophy.

Political Philosophy.

PROFESSOR LODGE.

1. A comparative study of the political institutions of France, England, and the United States, based upon Guizot, Taine, Freeman, May, Stubbs, Boutmy, Dicey, De Tocqueville, Bryce, C. E. Stevens, Burgess, and Maine.

2. A course in International Law: its genetic idea; its history; its present status, and the specific contributions made by the Government of the United States to the improvement of the law of nations. The work is based upon Wheaton, Calvo, Gallaudet, Lawrence, Hall, and Maine, as well as on the material furnished by the archives of the Department of State.

3. Courses in Political Economy, dealing with the problems of socialism, cooperation, and distribution, based upon the chief French, English, Italian, and German authorities.

4. A course on the Theory of the State, being elaborate studies in fundamental political philosophy, with critical examination of the history of speculation upon this subject from Aristotle to Bluntschli.

5. The Economic Interpretation of History.

Economics.

PROFESSOR CRAVEN.

1. THE PRINCIPLES OF PUBLIC FINANCE. - The treatment will be historical, theoretical, and statistical. Special attention will be given to modern systems of taxation.

2. POLITICAL SCIENCE. - An historical study of the forms and theories of government, and a comparison of ancient, mediæval, and modern codes, with special reference to the economic effect of each on the people.

3. ADVANCED POLITICAL ECONOMY. - A study of the theories of Economic Society, of Social Progress, and of practical Economic Problems.

Mathematics.

PROFESSOR GORE.

For the degree of Master of Arts:

1. Higher Plane Curves; Modern Higher Algebra.

2. Mathematical reading: Carr's Synopsis of Pure Mathematics; Laska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.

3. Advanced Integral Calculus; Theory of Equations.

For the degree of Doctor of Philosophy:

4. Functions: General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, *Théorie des Fonctions Abéliennes*.

PROFESSOR HODGKINS.

5. Differential equations.

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's Differential Equations. This will be supplemented by lectures and by the study of Forsyth's Differential Equations (two hours a week).

6. Determinants.

The first part of the year will be given to the mastery of some elementary book on Determinants, such as that by Wedd. This will be followed by a study of Scott's Theory of Determinants and of Muir's Theory of Determinants in the Historical Order of its Development.

Applied Mathematics.

PROFESSOR FREYHOLD

1. GEOMETRY OF POSITION, developed by projective methods, based on the works of von Staudt, Moebius, Steiner, Poncelet, etc.
2. GRAPHIC STATICS.—This science can be studied with either of two objects in view:
 - (a.) As a part of applied mechanics.
 - (b.) As a part of Analytical Mechanics, based on geometry of position.
3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

Mathematical Physics.

PROFESSOR CHRISTIE.

For the degree of Doctor of Philosophy:

1. Analytic Mechanics: Minchin, Price, Lagrange, Jacobi, Hamilton.
2. Spherical Harmonics and allied functions, with applications to mathematical physics: Todhunter, Ferrers, Thomson and Tait, Maxwell, Rayleigh, Heine.
3. Hydrodynamics and Tides: Lamb, Lagrange, Laplace, Airy, Thomson, Ferrel, Darwin.

The advanced student will be directed to the original memoirs and assisted in their reading.

The first year in any of these courses may be taken in satisfaction of the requirements for the Master's degree.

Solar Physics.

PROFESSOR BIGELOW.

Graduate studies, for the degree of Doctor of Philosophy, in Solar Physics in its relation to Meteorology.

1. SOLAR MAGNETISM.—The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for

the recent developments of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. COSMICAL ELECTRICITY AND MAGNETISM. — The two fields of force emanating from the sun, their mode of propagation through the æther, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and æther wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. TERRESTRIAL MAGNETISM. — The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. METEOROLOGY. — The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long-range predictions of the weather. A statement of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects, will be indicated to the student.

Theoretical Astronomy.

PROFESSOR FRISBY.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this School for the degree of Doctor of Philosophy a reading course in the determination of orbits with special practice in computing, under the following heads:

1. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's *Memoir on Olbers's Method*, *Abhandlungen*, Erster Band. Books of reference: Watson's *Astronomy*, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss's *Theoria Motus*. Books of reference, as above.

3. An Outline of the Method of Least Squares. Encke, Chauvenet, Braunnow, Watson, Johnson.

4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Enecke: *Abhandlungen*, Zweiter Band und Dritter Band. Books of reference, as above. The method of the variation of the six elements will be first taught. The other methods of Hansen and of rectangular coordinates will follow if needed.

5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference, Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc.

6. General Spherical Astronomy. Chauvenet's or Brunnow's *Spherical Astronomy*.

Astro-Physics.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

Chemistry.

PROFESSOR MUNROE.

Courses of graduate study in Chemistry leading to the degree of Master of Arts or of Doctor of Philosophy will be offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

PROFESSOR CLARKE.

Professor CLARKE offers to properly equipped students a course of research work in the development of his theory of the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

PROFESSOR WILEY.

Professor WILEY will direct special researches in Agricultural Chemistry provided that students properly trained in the elements of that science shall present themselves for advanced work.

PROFESSOR DE SCHWEINITZ.

Professor DE SCHWEINITZ offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry—

1. A study of the products of the growth of germs either in the animal body or upon artificial media.
2. The influence of these substances in causing disease and their relation to immunity.
3. The anti-toxins and methods of their preparation.

Zoölogy.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

Anthropology.

DR. MASON.

Candidates for the degree of Doctor of Philosophy in this School are expected to know as much of mineralogy, geology, geography, botany, zoölogy, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. (See these courses in the curriculum of the Medical School.) They should also have pursued a course in psychology, with especial reference to the study of physiology. (See Concordia Scientific School, Department of Mental and Moral Philosophy.)

The special studies of the School comprise—

1. Study of the races of man.
2. The history of culture (*Culturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.

3. The history of the past as revealed in the sciences of archaeology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Haeckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as text, with readings in the journals of the Anthropological societies.

Comparative Osteology and Artistic Anatomy.

PROFESSOR SHUTE.

The special studies in this branch comprise—

1. A brief exposition of the principles of the Evolution of Organic Forms generally; the Vertebrate Form and its Variations, with especial attention to Homologies; the Human Form and its Variations (as affected by occupation, age, sex, disease).

2. Such thoroughness in the descriptions of the several Bones, Joints, and Muscles, and such study of the Superficies of the Living Model as will enable the artist to understand the Statics and Kinetics of the Human Body; Methods of Studying the Proportions of the Human Body, etc.

Meteorology.

PROFESSOR ABBE.

ASSOCIATE PROFESSOR MARVIN.

Advanced study in Meteorology will be prosecuted under the three following subdivisions:

I.—EXPERIMENTAL LABORATORY WORK IN METEOROLOGY.

In this field of work the student will investigate the theories of several meteorological instruments and push his study to some decided advance beyond the present state of our knowledge. New apparatus will be devised and constructed and the nature of its errors investigated theoretically and experimentally. Old series of observations, conducted with imperfect apparatus and under unfavorable conditions, will be reduced and corrected in the light of the newest discussions. The laws of such physical phenomena as have to be considered by meteorologists will be investigated by laboratory methods; among these, for example, are the

diation, conduction and convection of heat, evaporation; the formation of dew, fog, cloud, rain, snow, hail, and lightning; the minute oscillations of wind and pressure; the pressure and movements of the wind; the absorption of radiations from the sun or earth by the atmosphere; the viscosity of the air, convective resistances, etc.

II.—PRACTICAL METEOROLOGY.

1. Daily weather charts of all nations.
2. International charts of the northern hemisphere.
3. Methods of projection in cartography.
4. Influence of land and ocean on weather and climate.
5. Empirical rules as to the variability and constancy of weather and climate in general, and computations of the index of variability of climate by the law of errors.
6. Weather types and typical weather charts, both for the United States and for the whole globe.
7. Predictions of daily weather by various methods, such as chance, persistency of current conditions and weather types.
8. Special rules for predicting frost, cold waves, rain, snow, wind.
9. Predictions for one, two, and three days.
10. Long range predictions for seasons and climates.
11. Precise definition of climate by Hinrich's method, and long range predictions of Hinrich's climatic exponent.
12. Climates in past geological ages.
13. Codification of empirical and rational rules for prediction.
14. Verification of predictions and the laws of chance involved therein.

III.—PHYSICAL AND THEORETICAL METEOROLOGY.

1. Insolation.
2. The absorption, conduction, and radiation of heat by the air, the earth, and the ocean, and the resulting distribution of temperature.
3. The thermodynamics of the atmosphere.
4. Convective equilibrium.
5. The general circulation of a dry atmosphere on a rotating globe.
6. The influence of oceans and continents, and the motions of the actual atmosphere.
7. Local cyclones and anti-cyclones.
8. Atmospheric waves and tides.
9. The distribution of fog, cloud, rain, and snow.
10. Optical and electrical phenomena.

Botany.

PROFESSOR SCRIBNER

1. Advanced systematic study of the various groups and families of plants.
2. Plant histology and special morphology.
3. Plant distribution and economic plants.

Geology.

PROFESSOR MERRILL.

This School offers a course of advanced study in Physical Geology, both systematic and applied. Besides a reading knowledge of both French and German, a sufficient knowledge of crystallography and the physics of light is required to enable the student to comprehend and utilize the methods employed in microscopic petrography. The course presupposes a knowledge of determinative mineralogy by both blowpipe and qualitative chemical methods. In case the student selects geology as his principal study, it is advised that a course in quantitative chemical analysis be chosen as one of his minor subjects. It is also desirable that the student devote a certain amount of time to the study of topographic engineering, making himself at least acquainted with the methods of surveying, topographic sketching, and plane-table work, if not proficient therein.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials; and to familiarizing himself with the literature of the subject. The utility of the various text-books will be recognized, but a very large proportion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, will from time to time be indicated by the instructor.

During the second year it is expected that the student will devote himself to some special investigation which shall serve as the subject of his thesis. Upon the thoroughness with which this subject is handled, the accuracy of observation, and the originality manifested must depend in largest measure his qualification for the desired degree. The course will be

modified to suit individual cases in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work. Particularly favorable facilities are offered in this course for work in petrography and in various branches of economic geology, owing to the extensive systematic series which will be found available for study in the exhibition halls of the National Museum. Students in architecture and engineering will also find it to their advantage to devote a portion of their time to the subjects presented in this course, giving particular attention to strength, durability, and the general weathering qualities of natural structural materials, as well as to the relative hardness and toughness of rock-masses, their structure and methods of formation.

Civil Engineering.

PROFESSOR FREYHOLD.

1. Advanced course in the Graphic Statics of Building Construction.
2. The theory of suspension, continuous, cantilever, and braced arch bridges, with a more complete course in the design of plate girders, riveted and pin connected bridges, with working drawings and estimates.
3. Advanced course in Construction—the theory and designing of retaining walls, masonry arches, and dams.
4. A thesis the subject of which is to be selected by the student with the approval of the professor of Civil Engineering.

Mechanical Engineering.

PROFESSOR ZOPKE.

ASSOCIATE PROFESSOR FARWELL.

1. Summary of Mechanical Engineering. Two hours.
2. Thermodynamics and Application to Theory of Hot-air, Gas, Gasoline, and Steam Engines. Three hours.
3. Construction of Single and Compound Steam-engines. Four hours.
4. Designing of Steam-engines as Constructive Exercises to 3. Four hours.
5. Boiler Construction. Two hours, one term.
6. Designing of Boilers. Two hours, one term.
7. Laboratory work. Efficiency tests of engines, boilers, condensers, pumps, etc. (Laboratory instruction will be given when the Machine Laboratory is completely organized.)

8. Critical Inspection of Power-plants.
9. Hydraulic Machinery. Two hours, one term.
10. Designing of Hydraulic Machinery. Two hours, one term.
11. Kinematics. Three hours.
12. Construction of Plants. Two hours, one term.
13. Designing of Plants. Four hours, one term.
14. Multiple-expansion Steam-engines and Steam-engines for Special Purposes. Four hours, one term.
15. Designing of Steam-Engines as Constructive Exercises to 14. Four hours, one term.
16. Machine Tools. Three hours.
17. Designing of Machine Tools. Two hours, one term.
18. Theory of Electro mechanical Constructions. Four hours.
19. Designing of Electro-mechanical Constructions. Four hours.

Electrical Engineering.

PROFESSOR WOLFF.

Students having obtained the degree of Bachelor of Science in Electrical Engineering (Course III) or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year in the Graduate School, embracing the following studies:

1. Advanced laboratory work.
2. Designing of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, with drawings, designs, and calculations of the plant, machinery, electric devices, with a full description, report, and estimate of cost.

Concomitant studies in Mechanical Engineering and Advanced Physics are required. Students are recommended to take besides Higher Mathematics, German, French, and Chemistry.

Architecture.

PROFESSOR HORNBLOWER.

PROFESSOR AMATEIS.

Classical styles; Interior architecture and decoration; Construction of buildings.

Thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

Bibliography and Bibliology.

PROFESSOR BOLTON.

Professor Bolton will exercise a general supervision over the bibliographic work done in this School and will advise students as to the best methods of work and the accepted methods of presentation of results.

Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at the Columbian University.

Doctorate Disputation.

The defense of the theses required of candidates for the degree of Doctor of Philosophy was held publicly in the Hall of the University June 3, 1896. The candidates who successfully defended their theses, the title of their theses, and the members of the boards attacking the same were as follows:

Candidate: EDWARD CLARK HUDSON, A. B., A. M.

Thesis: Investigation into the Use of the Genitive Case in Greek.

Experts: Rev. Prof. CARL E. GRAMMER, Prof. Dr. DANIEL QUINN, Dr. NATHAN S. LINCOLN.

Candidate: JAMES STEPHEN LEMON, B. A., M. S.

Thesis: The Skin considered as an Organ of Sensation.

Experts: Dr. ARTHUR MACDONALD, Prof. LESTER F. WARD, Dr. THOMAS M. McLAUGHLIN.

**ADMITTED AS CANDIDATES FOR DEGREES.
For the Degree of Master of Science.**

NAME.	Topic.	Residence.	Address.
William Frederic Biehl	Political Philosophy	Ohio,	1829 9th St., N. W.
Joseph William Fell	Chemistry	New York	Document Office.
E. S. Trinity College, 1889.			
Anna Sarah Hazelden	Mathematics	Dist. of Columbia	1215 9th St., N. W.
B. S., Columbian University, 1892.	Mineralogy	Minnesota	1324 N. Y. Ave., N. W.
Stephen C. Miller	Mathematics	Pennsylvania	U. S. Coast and Geo-
M. D. Columbian University, 1884.			graphic Survey.
Phar. D., Howard University, 1885.			
Jesse Pawling, Jr.	Political Philosophy	Dist. of Columbia	1325 11th St., N. W.
A. B., 1888; A. M., 1893, Philadel-	Chemistry	Massachusetts	203 Seaton St., N. E.
phia High School.	Mathematical Physics.		U. S. Patent Office
B. S., Cornell University, 1893.			
Anne Lewis Pierce	Chemistry	Nevada	The Lincoln.
B. S., Columbian University, 1893.		Tennessee	U. S. Patent Office.
Frank Patrus Simons			
A. B. University of Indiana, 1895.			
Edward Warren Vail, Jr.			
S. B. (Mech. Eng.), 1895; S. B.			
Elect. Eng., 1894, Worcester			
Polytechnic School.			
Edward Mitchell Van Harlingen			
B. S., Ohio State University, 1886.			
Thomas Alfred Witherspoon			
Graduate U. S. Naval Academy,			
1887.			

For the Degree of Master of Arts.

NAME.	Topic.	Residence.	Address.
Harry Hampton Donnelly B. S., Columbian University, 1896.	Political Philosophy	Virginia.	Kendall Green
Mary Katherine Chapin A. B., Columbian University, 1896	Political Philosophy	Dist. of Columbia	1814 Linden St., Le. Droit Park
Nancy Jacobs McKnight A. B., Wellesley College, 1887.	Mathematics	Dist. of Columbia	2652 16th St., N. W.
George Washington Peterson B. A., University of Minnesota, 1893.	Latin	Minnesota	1012 13th St., N. W.
Grace Colburn Smith. A. B., Colby University, 1893.	German.	Maine	912 15th St., N. W.
George E. T. Sturtevant. Hugh Thomas Stevenson Evaner McIver Sweet, Jr. A. B., Northwestern University, 1893.	Political Philosophy Sociology English	New York, Illinois Texas	East Washington Hts. Briarcliff St., Anacostia 311 K St., N. W.
Frederick Cogswell Wailes. A. B., University of Minnesota, 1890.	Statistics	Minnesota	311 East Capitol St.

For the Degree of Doctor of Philosophy.

NAME.	Topic.	Residence.	Address.
Victor King Chestnut, B. S., University of California, 1890.	Major, Plant Chemistry; Minors, Organic Chemistry, Botany.	California,	1104 P St., N. W.
Marion Dorset, B. S., University of Tennessee, 1893.	Major, Bio-Chemistry; Minors, Pathology, Bacteriology.	Pennsylvania,	1120 N. Y. Ave., N. W.
M. D., Columbian University, 1896. Oliver Langsdorf Fassig, B. S., Ohio State University, 1892.	Major, Meteorology; Minors, Solar Physics, Laboratory Physics.	Ohio,	U. S. Weather Bureau.
Revere Randolph Gurley, M. D., Columbian University, 1884. William Perry Hay, B. S., 1891; M. S., 1892, Butler University.	Major, Zoology; Minors, Botany, Geology.	Virginia,	71 N. Y. Ave., N. E.
Albert Mayer Hilliker, B. D., Seabury Divinity School, 1890.	Major, Zoology; Minors, Botany, Geology.	Dist. of Columbia,	478 O St., N. W.
Charles Arthur Hollick, Ph. B., Columbia College, 1879.	Major, Philosophy; Mi nors, History, Ethics.	Minnesota,	230 12th St., S. W.
John Scott Johnson, B. S., 1867; A. M., 1894, Columbian University.	Major, Paleobotany; Minors, Botany, Mineralogy.	New York,	U. S. Geological Survey.
Joseph Strayer Mills, A. B., 1880; A. M., 1893, Western Maryland College.	Major, Philosophy; Mi nors, Economics; His tory, Chemistry; Mi nors, Mineralogy, Physics.	Texas,	1460 Corcoran St., N. W.
		Maryland,	Central High School.

Thomas James Murray, B. A., 1889; M. A., 1890, St. Mary's College, Baltimore. LL. B., Georgetown University, 1895.	Major, Continental His- tory; Minors, Philoso- phy VIII, History III.	Dist. of Columbia	423 N. Y. Ave., N. W.
Edwin Barnes Niver. A. B., Brown University, 1893 B. D., Episcopal Theological School, Cambridge, Massachusetts. A. M., Columbian University, 1895. Henry Rogers Pyne A. B., 1893; A. M., 1894, Columbian University	Major, Philosophy; Mi- nors, Ethics I and II.	Maryland	1332 R St., N. W.
Frederick Reed A. B., 1881; LL. B., 1886, Harvard University. John Merriam Reynolds B. E., 1867; M. E., 1869, Pennsylv- ania State Normal School A. M., Columbian University, 895. Timothy William Stanton B. S., 1882; M. S., 1895, Univer- sity of Colorado. Alexander Summers. B. A., 1876; M. A., 1893, Univer- sity of Tennessee.	Major, Greek; Minors, Latin, French. Major, Psychology; Mi- nors, Biology, Philoso- phy. Major, Philosophy; Mi- nors, Continental His- tory, Political Philo- sophy. Major, Paleontology; Mi- nors, Zoology, Min- eralogy. Major, Political Philos- ophy; Minors, Philo- sophy VIII, Compere- tive Politics. Major, Chemistry; Mi- nors, Mineralogy, Met- allurgy.	Maine Pennsylvania Pennsylvania Colorado Tennessee Idaho	1702 S St., N. W. Chevy Chase. 1309 Conn Ave., N. W. 205 13th St., N. W. Bureau of Education. 1114 N. H. Ave., N. W.
Cabell Whitehead B. M., Lehigh University, 1885 M. S., Columbian University, 1895.			

Candidates for degrees, 36.

THE SUMMER SCHOOL.

THE FACULTY.

THE REV. BENAIAH L. WHITMAN, D. D.,
President.

HOWARD L. HODGKINS, Ph. D.,
Director.

WILLIAM A. MAURY, LL. D.,
Professor of Law.

HERMANN SCHOENFELD, Ph. D.,
Professor of German and of Continental History.

ANDREW F. CRAVEN, Ph. D.,
Professor of Economics.

F. LAMSON-SCRIBNER, B. S.,
Professor of Botany.

FRANK A. WOLFF, Ph. D.,
Professor of Physics.

MARATHON MONTROSE RAMSEY, A. M.,
Professor of Romance Languages and Secretary of the Faculty.

ELMER S. FARWELL, C. E.,
Associate Professor of Mechanical Engineering.

HENRY R. PYNE, A. M.,
Assistant Professor of Greek and Latin.

H. GRANT HODGKINS, A. B.,
Instructor in Mathematics.

PETER FIREMAN, Ph. D.,
Instructor in Chemistry.

EDWARD A. MUIR.

Instructor in Mechanical Drawing and Photography.

EMIL H. MEYER.

Instructor in Fine Arts.

E. HILTON JACKSON, A. M., LL. M.

Instructor in Law and in Law Latin.

ALBERT F. FLINT, LL. M.

Instructor in Law.

THOMAS A. WILLIAMS, A. M.

Assistant in Botany.

COURSES OF INSTRUCTION.

Botany.

PROFESSOR LAMSON-SCHRIENER AND MR. WILLIAMS.

Gross anatomy or organography, general morphology, and systematic botany by lectures, recitations, and studies in the field. The field-work will consist of the collection of specimens representing the more general groups of the vegetable kingdom and their preparation for the herbarium. Special studies of grasses and the plants of the District of Columbia will form a feature of the course. Three hours a week.

Chemistry.

DR. FIREMAN.

1. Introduction to the study of Chemistry.
2. A rapid review of Inorganic Chemistry.
3. A rapid review of Organic Chemistry.
4. A series of experiments on the fundamental principles of Chemistry. A laboratory course. Nine hours a week.
5. Organic preparations. A laboratory course. Eighteen hours a week.

It is believed that the above courses can be taken with a fair degree of thoroughness during the summer session.

Additional laboratory courses in particular branches of analytical chemistry will be arranged to meet the desires of applicants.

In addition to the regular fee for course 4, each student will be charged \$2.50 for materials.

The fee for course 5 is \$20. The chemicals will be charged extra, but the preparations will be so selected that the total expense for chemicals will not exceed \$10.

Continental History.

PROFESSOR SCHOENFELD.

1. History of the Middle Ages from the Migration of Peoples. Two hours a week.
2. The Napoleonic Era. One hour a week.
3. The Building up of the Modern German Empire. Two hours a week.

Economics.

PROFESSOR CRAVEN.

1. Finance. Three hours a week.
The Science of Money and Credit, with especial reference to present conditions in the financial world. Lectures, notes, collateral reading from Walker, Macleod, Jevons, White, and others.
 2. Politics. Three hours a week.
Fundamental principles of government by the people; organization and functions of the Township, County, City, and State.—Diagrams, lectures, notes, readings, and reviews.
 3. Political Economy. Three hours a week.
Short text-book studies from Adam Smith, Ricardo, Mill, Gregory, and Marshall. A complete outline of Political Economy will be given.
 4. International Law. Three hours a week.
Sources, purposes, and economic effects and benefits of International Law. Texts: Woolsey and Gallaudet.
- The particular attention of students of law is called to courses 2 and 4.

Fine Arts.

Mr MEYER.

1. Sketching from Nature. Landscapes in oil, water color, pencil, charcoal, and wash. Monday, Wednesday, and Friday from 2 to 6 p. m. This course will be especially adapted to the needs of art students, and of teachers in public and private schools.

2. Free-hand Drawing. To be given both as a general course and as applied to civil engineering and architecture. Four hours a week.

Other courses in drawing and art will be arranged to suit the wishes of individuals and classes.

German.

PROFESSOR SCHOENFELD.

1. Training in elementary grammar; systematic exercises in conversation; readings from the best prose-writers. Three hours a week.

2. German syntax; conversation; readings from novels and the classics; composition. Three hours a week.

3. An advanced course in German literature: Kluge's *Deutsche Literatur-geschichte*, modern period; interpretation of Lessing, Goethe, Schiller especially for teachers. Three hours a week.

Greek.

PROFESSOR PYNE.

1. A course for those students who desire to begin Greek. White's *Beginner's Greek Book*. Three hours a week.

2. A rapid review of White's *Beginner's Greek Book*, together with translation of *Anabasis*, Book I, Chapters I-V. This course is designed especially for those students who desire to review their first year's work. Three hours a week.

3. *Anabasis*, Homer, Herodotus or Lysias; grammar, exercises. Courses will be given in one or more of these authors on application of a sufficient number of students. Especial attention will be given to translation and constructions. Three hours a week.

Latin.

PROFESSOR PYNE

1. A course for those desiring an introduction to the language. Collar and Daniell's First Latin Book. Three hours a week.
2. A rapid review of the First Latin Book. A course designed for those desiring a thorough and rapid review of their first year's work. Three hours a week.
3. Caesar: grammar, exercises. Especial emphasis laid on translation and constructions. Three hours a week.
4. Cicero, Vergil, Livy, Ovid, etc. Courses will be given in these authors similar to course 3, on application of a sufficient number of students. Three hours a week.

Law.

PROFESSOR MAURY.
MR. JACKSON.
MR. FLINT.

1. This course will comprise a general treatment of bills and notes, partnership, principal and agent, wills, personal property, and criminal law. Four hours a week.

While this course is specially designed for beginners, it will be found profitable, also, to those who take course 2, whether they be students of law or practitioners.

2. The subject treated in this course will be real property, the text-book used being the second book of Blackstone's Commentaries. Four hours a week.

This course is designed both for students of law and for graduates in law who desire to review this most important subject.

3. This course will comprise a general treatment of Common Law Pleading and Evidence. If time will permit, leading heads of Equity Jurisprudence will also be considered. It will be of especial value as a preparation for the detailed work in these subjects in the Senior Course in the Law School, and will be found useful also as a review course. Four hours a week.

These courses have been arranged because of the desire expressed by many students of law to prosecute their legal studies during the summer months. The work, however, is not designed alone for these, as a special course has been arranged for those who are to begin the study of law, and in outlining the courses the fact has been kept in mind constantly that there is an ever increasing number who desire to become acquainted with the elementary and underlying principles of law as an indispensable part of a liberal or business education.

The instruction is to be given almost exclusively by "quizzing," as it is believed that by this method the progress of the students will be most rapid, and the best results accomplished, in view of the limited time of the Summer course.

Law-Latin.

MR. JACKSON.

This course is intended for the benefit of law students and members of the profession who have not a working knowledge of Latin, and is designed to make them familiar with the essential principles of the language while at the same time employing as the material of instruction those maxims and phrases met with daily in practice and in the leading text-books.

A careful selection of four hundred leading maxims has been made, and these have been divided into thirty-two lessons, conducting the student by a gradual and easy process from the most elementary principles of etymology to the more involved construction of syntax.

The legal bearing of every maxim or phrase will be fully set forth, nor can this feature of the work be readily overestimated, as it is well known that maxims of law remain always "unerring principles of truth, in accordance with which all laws now and hereafter to be made will be interpreted."

Experience gained from classes already in operation warrants the conclusion that the thorough student will become a master of the English method of pronunciation, and, by reason of the constant use of these maxims in the class room, will have at his tongue's end information that may be considered an almost indispensable part of the equipment of every successful practitioner.

Mr. Jackson has in course of preparation and expects to have published in time for use in the class a text book styled Law-Latin, which in the hands of the student will greatly facilitate and enhance the value of the work. Five times a week.

Mathematics.

MR. HODGKINS.

1. College Algebra, beginning at quadratic equations. Four hours a week.
2. Solid Geometry. Four hours a week.
3. Plane Trigonometry. Four hours a week.
4. Analytic Geometry. Four hours a week.
5. Elementary Calculus. Four hours a week.

Classes in Elementary Algebra and Plane Geometry will be formed if desired.

Mechanical Drawing.

MR. MUTR.

1. A course in Geometrical Problems to teach the beginner the accurate use of his instruments and to acquaint him with the principles and conventional methods of Mechanical Drawing.
2. A course in Patent Office Drawing.
3. A course in the Elements of Projection for beginners.
4. A course in "Working Drawings" of Machine Details.

A number of machine parts of the latest design will be found in the drawing-room. The student is expected to make complete working drawings of these parts, so that he may become familiar with their construction.

5. A course in Working Drawings of Building Details, wood joints, partitions, flooring, trusses, etc.

Mechanical Engineering.

PROFESSOR FARWELL.

1. Thermodynamics. Four hours a week.
A study of elementary principles and their application to heat engines.
2. Elements of Mechanism. Three hours a week.

A study of the fundamental principles of Kinematics and Machine Elements. Particular attention will be given to the solution of original problems on trains of elements for the transmission and transformation of motion.

3. Mechanics of Machinery. Three hours a week and constructive exercises.

A course in Graphical Mechanics. The course will begin with a study of the general theory of Graphics, the graphical representation of quantities, and of arithmetical operations thereon. The principles of Graphics will then be applied to the solution of original problems in Statics, Dynamics, and Kinematics of Machinery.

4. Elements of Descriptive Geometry and Projections. Three hours a week and constructive exercises.

An introductory course requiring no preparation beyond plane geometry.

5. Theory of Perspective, and Shades and Shadows. Three hours a week and constructive exercises.

Requires no preparation and is especially adapted to students of architecture and art.

All courses are especially prepared for the student of general science or as an introduction to the advanced subjects. Advanced or technical courses in the above or allied subjects may be arranged upon application.

Photography.

MR. MUIR.

An elementary course in Practical Photography, its industrial and technical applications to the various branches of science and engineering. Four hours a week.

Instruction will be given in the class room, the field, and the dark room. The work will start at the beginning of the subject, giving all the detail steps necessary for obtaining the best results. Some photographic experiments with the "Roentgen rays" will be given.

In addition to the regular fee for this course, there will be a small charge for materials.

Physics.

PROFESSOR WOLFF.

1. General Physics. Three lectures a week.

The principles of Physics as illustrated by experiment. This course is intended for students without special preparation.

2. Laboratory Work.

A laboratory course for beginners in the fundamental measurements in mechanics, sound, heat, light, electricity, and magnetism. The laboratory will be open daily from 9 a. m. until 8 p. m.

Students in the Corcoran Scientific School taking this course will receive credit for the work done, or more advanced work may be substituted in the regular course.

Fee for either course, \$10; for both courses, \$15.

Arrangements will be made for additional courses in advanced Physics and laboratory methods on request of a sufficient number of properly equipped students.

Romance Languages.

PROFESSOR RAMSEY

FRENCH

1. Elementary course, for beginners. Three hours a week.

A course designed to give careful drill in French pronunciation, and to lay a firm grammatical foundation for subsequent study.

Text-books: Grandgent's Short French Grammar and Paul Bercy, *La langue française*.

2. French Syntax. Two hours a week.

Practical treatment of the salient peculiarities of French syntax, with exercises in French composition.

Text-books: Howard's Aids to French Composition and any good reference grammar.

3. *Conversations sur les événements quotidiens*. Two hours a week.

Conversation on current topics, based upon a perusal of the French press. (No English spoken.)

4. The French dramatists of the present century. Two hours a week.

SPANISH.

1. Elementary course (similar to course 1 in French). Three hours a week.

Text-book: Ramsey's Text book of Modern Spanish.

2. Practice in conversation and newspaper reading. (No English spoken.) Two hours a week.

3. Spanish literary style, the principles of criticism, syntax, and rhetoric. Two hours a week.

4. Spanish literature. Two hours a week.

Twelve lectures, giving an account of the best that has been written in Spanish, from the *Poema del Cid* to the present day.

ITALIAN.

1. Elementary course, for beginners. Three hours a week.

This course is intended to take the student through the rudiments of the grammar and enable him to read easy prose.

2. Italian phonetics. Two hours a week.

A course offering thorough drill in the quality and quantity of Italian voice sounds, pronunciation, and expression. Designed especially for students of vocal music.

Text book: Grandgent's Italian Grammar and Composition.

Tuition Fees.

The fee for one or more courses in one Department, exclusive of laboratory courses, is ten dollars. The payment of twenty dollars admits the student to all except the laboratory courses, for which extra fees are charged, according to the announcements made under such courses. All fees are payable in advance at the time of registration.

General Statement.

Instruction will begin on Monday, June 21, and continue until July 31. All courses are open to students of both sexes. Only those courses will be given for which a sufficient number of applicants present themselves.

The classes will meet in the evening, between 4 and 8 o'clock. This will permit persons employed in Washington to avail themselves of the advantages offered, and will give to those coming from a distance the entire day in which to visit the Government buildings, libraries, and museums, to study, or to do extra work in the laboratories.

The other Schools of the University will give proper credit for work done in the Summer School to students who are now or who may be hereafter enrolled in them.

The attention of teachers is called to the opportunities here offered for continuing their studies under the direction of university instructors.

Every effort will be made to suit the work to their requirements, and in the laboratory and field courses, especially, individual needs will be met.

Present and prospective students of law and medicine will find a number of courses that will be of particular value, both for review and broadening of work done and for preparation for their regular professional studies.

The University buildings, laboratories, and library will be open daily, Sunday excepted, from 9 a. m. until 8 p. m.

During the year 1896-1897 desirable rooms, convenient to the University buildings, have been offered at \$5 to \$10 per month, and good board has been offered at \$15 to \$20 per month. Lists of persons offering rooms and board can be obtained upon application at the University.

For further information regarding the Summer School, application may be made to

HOWARD L. HODGKINS, *Director,*
The Columbian University, Washington, D. C.

Students in the Summer School, 1896.

Name	State	Address
Julius L. Arntzen	Mo.	Patent Office.
George Wilson Baker	D. C.	1745 Q Street, N. W.
W. F. Biehl	Ohio	1820 Ninth Street, N. W.
Earl Biscoe	D. C.	813 Twenty-first Street, N. W.
Wymond H. Bradbury	N. J.	808 I Street, N. W.
Martha M. Brewer	Mass.	Lanham, Maryland.
Everett Heath Brasius	D. C.	2420 Fourteenth Street, N. W.
Charles F. Burnside	D. C.	U. S. Treasury.
John M. Caffery	Ia.	1334 Nineteenth Street, N. W.
L. M. Cleveland	D. C.	Washington, D. C.
Thomas L. Costigan	Del.	202 Arthur Place, N. W.
Z. Lewis Dalby	Va.	914 Twelfth Street, N. W.
John Davies	D. C.	309 I Street, S. E.
John W. Ewing	Ill.	106 Fifth Street, N. E.
B. F. Gebest	D. C.	1327 F Street, N. W.
Clarence Gerry	D. C.	Sixth and Seaton Streets, N. E.
Irene Gibson	Mo.	1446 Staughton Street, N. W.
Anna L. Goodheart	Tenn.	636 I Street, N. E.
John T. Harris	Mo.	1220 Eleventh Street, N. W.
Cornell S. Hawley	N. Y.	The Varnum.

Name	State	Address
Roy Bagley Hayes	Wis.	502 D Street, N. E.
William Hindrick	D. C.	319 Four-and-a-half Street, N. W.
Lester M. Holt	Wis.	433 M Street, N. W.
D. K. Jackson	Va.	302 East Capitol Street.
J. B. Lichty	Ill.	458 C Street, N. W.
Margaret C. Lohr	D. C.	759 Eleventh Street, S. E.
Lillian Long	N. C.	322 Spruce Street, N. W.
Edwin K. Lundy, Jr.	D. C.	808 North Carolina Avenue, S. E.
Paul Bishop McConville	Ohio	1921 K Street, N. W.
M. J. McIntee	Mass.	819 Thirteenth Street, N. W.
Herbert W. Marcum	D. C.	Brookland, D. C.
Charles M. Merwin	D. C.	917 Westminster Street, N. W.
Sundol Milliken	Tenn.	1012 Twelfth Street, N. W.
Charles H. Pierce	Tenn.	1407 Sixth Street, N. W.
Edward George Portner	Va.	1104 Vermont Avenue, N. W.
G. B. Puga	Mexico	1114 Eleventh Street, N. W.
W. A. Quinn	D. C.	415 Second Street, N. E.
G. I. Raybold	D. C.	820 North Carolina Avenue, S. E.
Mary Meade Raborg	D. C.	1643 Nineteenth Street, N. W.
Fred. D. Ruggles	Va.	2121 G Street, N. W.
William H. Russell	Pa.	2313 Washington Circle, N. W.
Percy Saint	La.	1334 Nineteenth Street, N. W.
Guy L. Seaman	Iowa	1119 I Street, N. W.
W. Morgan Shuster	D. C.	1408 Fifteenth Street, N. W.
Hugh T. Stevenson	D. C.	Amcostia, D. C.
W. G. Stuart	D. C.	1244 Eighth Street, N. W.
Vina A. Sweeney	Pa.	1601 New Hampshire Ave., N. W.
A. R. Thornton	Ind.	206 Indiana Avenue, N. W.
Mrs. W. E. Thurston	N. C.	High Point, North Carolina.
Philip Tindall	D. C.	2103 California Avenue, N. W.
P. C. Treanor	N. Y.	328 Pennsylvania Avenue, S. E.
Frederick Tyers	Kansas	825 Thirteenth St., N. E.
Ferdinand C. Walsh	D. C.	1504 H Street, N. W.
Marie Whalgren	D. C.	1129 Fourteenth Street, N. W.
Herbert A. White, U. S. A.		Fort Myer, Virginia.
W. G. Worrell	Va.	U. S. Treasury.
K. Lulalia Yancey	Va.	South Boston, Virginia.

Total 57

THE LAW SCHOOL.

The Faculty.

THE REV. BENAIAH L. WHITMAN, D. D.,
PRESIDENT.

THE HON. WALTER S. COX, LL. D., DEAN.
(Associate Justice of the Supreme Court of the District of Columbia)
Professor of the Law of Real Property, of Contracts, of Crimes and Misdemeanors, and of Commercial Paper.

THE HON. JOHN M. HARLAN, LL. D.,
(Associate Justice of the Supreme Court of the United States)
Professor of the Constitutional Jurisprudence of the United States, of the Law of Domestic Relations, of Torts, and of Personal Property.

THE HON. WILLIAM A. MAURY, LL. D.,
(Sometime Assistant Attorney General of the United States)
Professor of Equity Jurisprudence, of Common Law and Equity Pleading, of the Law of Evidence, and of the Jurisdiction and Practice of the Federal Courts.

THE HON. DAVID J. BREWER, LL. D.,
(Associate Justice of the Supreme Court of the United States)
Professor of the Law of Corporations.

HENRY E. DAVIS, LL. M.,
(Attorney of the District of Columbia)
Lecturer on the History of Law.

WILLIAM F. MATTINGLY, Esq.,
(of the Washington Bar)
Lecturer on Practical Commercial Law.

THE HON. BENJAMIN BUTTERWORTH,
United States Commissioner of Patents
Professor of the Law of Patents

WILLIAM G. JOHNSON, LL. M.,

of the Washington Bar

Professor of Legal Catechetics, Common law Practice, and Judge of the
Moot Court.

LEE DAVIS LODGE, PH. D.,

Professor of Public and Private International Law and of Politics

MELVILLE CHURCH, LL. M.,

Professor of the Law of Patents.

TRACY LILLIE JEFFORDS, PH. B., LL. B.,

Sometime Assistant Attorney of the District of Columbia

Professor of Criminal Law and Medical Jurisprudence.

Court of Appeals.

WILLIAM F. MATTINGLY, *Chief Justice.*

HENRY E. DAVIS,

CHARLES W. NEEDHAM, *Associate Justices.*

The sessions of the Law School of the Columbian University are held in the University Building, situated on the southeast corner of Fifteenth and H streets, only a few steps from the Executive Mansion and the Executive Departments of the Government.

Admission.

The course of study is adapted to graduates of colleges and to any who have attained a competent discipline of their mental powers. No one is admitted as a candidate for graduation in the Senior Class who has not spent one year either at this or some other law school, or performed a corresponding amount of study under the direction of a member of the bar. Candidates of the latter kind for admission to the Senior Class may be required to sustain a satisfactory examination upon the studies of the Junior Year.

Matriculation.

No fee is charged for matriculation, but the fee for at least one month's tuition must be paid in advance on registration. The register will be open

for the enrollment of students on the first day of September. Seats in the Lecture Hall will be assigned to students in the order of their registration, but seats so assigned will be forfeited on the non-payment of monthly dues.

Sessions.

The entire course of study in the undergraduate department embraces two years. The next annual session will begin on Wednesday, September 29, 1897, and end on June 1, 1898. The exercises of the School begin daily at 6 o'clock p. m., which enables the University to profit by the services of eminent jurists engaged in the public service at Washington, and gives to students the entire day for study, for reading in the law libraries, or for attending the several Courts at the Federal Capital, besides permitting young men engaged in office duties to enjoy the facilities of the School.

Courses of Instruction.

The School has four classes—a Junior and a Senior in the undergraduate department, a graduate Class in Practice, and a Class in Patent Law and Patent Law Practice.

Junior Class.

PROFESSOR COX

(Associate Justice of the Supreme Court of the District of Columbia.)

Mr. Justice Cox, aiming to secure for the students of the Junior Class a thorough and accurate knowledge of the law of real and personal property, of contracts, and of crimes and misdemeanors as it is possible for them to attain within the brief period of a scholastic year, places in their hands successively Blackstone's Commentaries, Kent's Commentaries, Parsons on Contracts, and Byles on Bills, as text-books. He meets the class on Tuesday, Thursday, and Saturday of each week. For each meeting a lesson of moderate length is assigned, and the lesson for the evening forms the subject of his lecture. In his lecture he reviews, illustrates, and simplifies, as far as he can, the teachings of the lesson, shows how far and in what particulars the law contained in it has been repealed or modified, either by English or American statutes or by the American common law, and tries to remove the doubts and uncertainties that are apt to trouble and perplex those entering for the first time upon the study

of law; and to insure a careful reading of the lesson and proper attention to his lecture, he, at the close of the latter, questions the class upon the important points of each.

The students in both the Junior and the Senior classes are required to attend this course.

Domestic Relations, Personal Property, Commercial Paper, and Torts.

PROFESSOR HARTAN

(Associate Justice of the Supreme Court of the United States)

Mr. Justice HARTAN gives a course of lectures on each of these subjects, meeting the classes on Monday and Wednesday evenings, and following the general order and arrangement pursued respectively in Browne on Domestic Relations, Smith on Personal Property, and Pollock on Torts; there is no mere study of these as text books. The purpose is rather to take leading cases on the various topics, and by discussion of those cases to explain, illustrate, and make distinct the rules and principles of these different departments of law. He also calls upon the students to prepare and return to him criticisms on some of the cases he discusses, and thus invites the active effort of all to extract from the opinions the precise matters decided and the reasons therefor. In this way he strives to counteract the tendency to become mere case lawyers and turns the attention to the matter of fundamental principles. This course extends through the whole scholastic year, and the attendance of both the Senior and the Junior classes is required.

The Senior Class.

PROFESSOR MAURY

(Sometime Assistant Attorney General of the United States)

The students of the Senior Class meet the Professor charged with their special instruction on Monday, Wednesday, and Friday of each week, and, while pursuing the special studies of the Senior course, are required to go a second time through the course of the Junior year, that they may be thoroughly grounded in the law of real and personal property and of contracts.

The special studies of the Senior year begin with Common Law Pleading, in which Stephen on Pleading, as edited by Tyler, is used as the text-book of the class. Next follow instructions on the Law of Evidence, with the first volume of Greenleaf on Evidence as a manual. To these succeed instructions in Equity Jurisprudence and Equity Pleading and Practice, Smith's Manual of Equity and Mitford and Tyler's Pleading and Practice in Equity being the text-books used under these heads. The closing part of the course is occupied with the Law of Partnership, considered in itself and in its relations to remedies afforded in courts of equity; and, because of their especial character, lectures are given on the remedies: Ejectments, Quo Warranto, Scire Facias, and Mandamus, as also lectures, by way of review, on Pleading and on Evidence, delivered at the close of the whole course.

The method of instruction pursued in this class is as follows: A lesson, comprising a certain number of pages in the text-book, is assigned to the class, and on the subject-matter of this lesson the Professor, at his next meeting, lectures according to the requirements of the case. At the next meeting he examines the class on the text and lecture of the preceding meeting, using for this purpose carefully written questions and calling up indiscriminately the members of the class.

Legal Catechetics.

PROFESSOR JOHNSON.

The lectures of Professor Cox and of Professor MAURY in the undergraduate department are followed by oral "quizzes" (extending through a whole hour on several days of each week) conducted by Professor JOHNSON, a graduate of the School, who is familiar with its methods of instruction. His "quizzes" are additional and supplemental to those of Professors Cox and Maury.

By this catechetical analysis, which proceeds on the basis of carefully prepared questions designed to exhaust the contents of the text-books and the lectures, the student is called upon to expound with clearness and to reproduce with readiness the principles of law explained in both.

It is hoped that such a *cora-toe* review, by emphasizing the explanation of difficult points, will not only impress these points on the memory of the student, but will also train him to a useful self-command in their prompt enunciation.

Constitutional Law.

PROFESSOR HARRIS

(Associate Justice of the Supreme Court of the United States.)

A course of lectures on the Constitution of the United States, extending through the whole of each scholastic year, is delivered by Mr. Justice HARRIS.

In this course the student is first made acquainted with the principles of Constitutional Law which had been established in England at the time our Government was organized, as well as with the history of the origin and formation of the Constitution of the United States. It is sought to show how far the Constitution, in its underlying principles, was an orderly and progressive evolution of political ideas in the British race, and how far, in its special structure and provisions, it was a new creation, adapted by its framers to the conditions and wants of the American States and people at the date of its formation. Next follows an examination of each separate clause of the Constitution, with a discussion of the leading adjudications which show how each clause of that instrument has been interpreted by the courts, especially by the Supreme Court of the United States.

These lectures are delivered every Saturday and are open to both the graduate and the undergraduate classes of the School.

Law of Corporations.

PROFESSOR BREWER

(Associate Justice of the Supreme Court of the United States.)

To those who are engaged in the every-day work of the profession no branch of the law is of greater practical importance than the law of corporations. So great a volume of business is done by corporations today that they furnish a large amount of the litigation; and, because of their importance, special attention is given to this subject. An extensive course of lectures is delivered by Mr. Justice BREWER, in which the fundamental principles, as early established, and the modifications and adaptations of those principles to the work of corporations in the business of today, as settled by the more modern authorities, are fully developed. The study in these lectures is not confined to private corporations, but includes also the subject of municipal corporations, and the differences

between the implied powers and liabilities of these two kinds of corporations and the reasons therefor are explained. This course extends through a large part of the year.

International Law.

PROFESSOR LODGE.

The method of instruction in this subject is historical and philosophical as well as legal. After a discussion of International Law in its nature, foundation, and distinctive quality, as exhibited in its genetic ideas and in the laws of its growth, the Professor seeks to expound the fundamental principles which constitute the body of this supreme jurisprudence, with their most important applications, alike to the conduct of nations and to the conduct of individuals. His constant aim is to show how the problems of International Law have arisen, what was the matrix of historical environment in which the law was formed, what the law actually is at present, what defects the system exhibits when subjected to ethical criticism, and what are the lines of direction of the tendencies which a careful examination reveals. Care is taken to discriminate sharply between International Law and International Morality. Throughout the course the attempt is made to bring out in clear relief the most important points in the History of Diplomacy. The contributions made by the United States to the improvement of International Law are emphasized. It is believed that students expecting to enter the diplomatic service of the United States will find that this course will prove a valuable preparation for their official duties.

These lectures are open to both the graduate and undergraduate classes of the School.

Politics and Sociology.

PROFESSOR LODGE.

It is the object of this course to furnish to the student of law a helpful knowledge of the history of culture, the evolution of social institutions, the philosophy of government, and the political life, past and present, of England, France, and the United States. By such studies law is put in its proper relation to life, the development of principles from root to fruit is traced, the interdependence of civilizations, the interrelations of races.

and the interaction of political forces are exhibited, and the essential elements of our jurisprudence, being studied in their genesis and growth, are more thoroughly comprehended. Short lecture courses are given upon the following subjects in succession:

I. Ethnology.

The work is based upon such authors as Topinard, Ratzel, Keane, and Brinton.

II. Anthropology.

It is aimed to present under this head the most important results reached by such masters of anthropological science as Tylor, Morgan, Powell, and Mason.

III. The Theory of the State, being careful studies in fundamental political philosophy, with critical examination of the history of speculation upon this subject from Aristotle to Bluntschli.

IV. Comparative Politics.

V. Sociology.

This part of the work will be grounded on Comte, Spencer, Ward, and Giddings.

The establishment of these courses is the first step in the development of the School of Comparative Jurisprudence briefly outlined on page 138, and the work will be conducted with the constant aim of contributing to the realization of the plan there set forth.

These courses are open to both the graduate and the undergraduate classes of the School.

Criminal Law and Medical Jurisprudence.

PROFESSOR JEFFORDS.

This course will be supplementary to the fourth book of Blackstone, and will show to what extent the principles, in regard to public wrongs, laid down by Blackstone are applicable in this country at the present day, treating particularly of other principles and of offenses which are either not discussed by Blackstone or do not receive from him the attention which their importance in later times requires.

The course will include also an exposition of the legal principles which are likely to be raised in the practice of the medical profession.

The course is open to the undergraduate classes of the School.

Practical Commercial Law.

WILLIAM F. MATTINGLEY, Esq., a member of the bar of the District of Columbia, will deliver a special course of Lectures upon questions constantly arising in business life, in banking, in the use of commercial paper, and in the purchase and sale of merchandise, as illustrated by a study of actual cases.

The course is open to the undergraduate classes of the School.

The History of Law.

Professor HENRY E. DAVIS, A. M., LL. M., delivers a course of Lectures giving a general view of the Origin of the English Law and its Development in England and in the United States.

The course is open to the undergraduate classes of the School.

GRADUATE COURSE IN PRACTICE.

A graduate course of instruction in Common Law Practice and in Equity Pleading and Practice, designed to show the application of the principles of law to the transactions of business life and to the actual proceedings of courts, is conducted by Professors MAURY and JOHNSON as a supplement to the undergraduate course of the Law School. This course leads to the degree of Master of Laws.

In the Equity Branch the students are instructed by Professor MAURY in the general principles of equity pleading and in the mode of conducting an equity case. The text-book employed will be Mitford and Tyler's Equity Pleading and Practice.

During a considerable portion of the term Professor MAURY holds a chancery court, in which students are exercised in equity pleading and practice and all the details in the conduct of equity causes.

In addition to the instruction in legal and equitable procedure, Professor MAURY delivers a special course of lectures on the jurisdiction, practice, and peculiar jurisprudence of the courts of the United States.

In the Common Law Branch the students use, under the direction of Professor JOHNSON, a work on practice prepared by Professor COX, after which they are exercised in the conduct and trial of cases, and thus taught to apply their theoretical learning in pleading, practice, and evidence. In connection with this course it is intended that they shall also study some such work as Archbold's Law of *Nisi Prius*.

During more than half the term the exercises are those of a *Vox Populi* Moot Court, presided over by Professor Johnson.

In this course, statements of facts are furnished to the students, who are required to bring and defend proceedings in equity and suits at law thereon, two students being assigned as counsel on each side. By this means they are required to determine the form of action or proceeding, to prepare the pleadings, to produce the evidence, and actually to try the cases, and are thus exercised in all the features and details of the preparation and conduct of an action at law or proceeding in equity as in actual practice, as also in the preparation of legal papers, such as conveyances, wills, etc.

Conditions of Admission to the Graduate Course in Practice.

Candidates for admission to this course are required to furnish evidence that they have been diligent and successful students of law for the term of two years. Diplomas of respectable law schools, certifying that their holders have been graduated after such a term of study, will be received as evidence of qualification for a license. At the end of the course all such students who shall sustain a satisfactory examination in its instructions and exercises will be entitled to a diploma admitting them to the degree of Master of Laws. Students who have pursued a two years term of study in a lawyer's office will also be admitted to the course on presenting a certificate of the fact from the lawyer under whose direction they may have studied and passing an entrance examination, but all such students, if aspiring to the degree of Master of Laws, will be required, as a condition precedent of receiving it, to sustain a satisfactory examination for the degree of Bachelor of Laws, as well as for the degree of Master of Laws.

The tuition fee for this course, covering a period of eight months, is *fifty dollars*. It does not carry with it the privilege of attending the Lectures of the undergraduate course, except in the case of students who are graduates of the School.

A charge of ten dollars is made for diplomas.

Court of Appeals.

Supplementary to this is the Court of Appeals, to which those cases may be taken and in which the student is instructed and exercised in the course of procedure by writ of error and appeal and the preparation of

records on appeal, and the preparation of briefs and argument of causes in appellate courts, the purpose being to drill the student in all the details of a case in actual practice, from the presentation of the facts by the client to the final disposition thereof in the court of last resort.

A SPECIAL COURSE IN PATENT LAW AND PATENT LAW PRACTICE.

PROFESSOR CHURCH.

In view of the growing importance of the subject, and in response to the urgent request of a number of members of the bar and graduates in law, the Board of Trustees of the University established in 1895 a new special course giving thorough preparation to those who contemplate entering that most interesting department of jurisprudence—the law of patents.

This course in practice covers a period of eight months, with two lectures or sessions of the Moot Court each week.

The degree of Bachelor of Patent Laws will be conferred upon those who pass a satisfactory examination at the close of the term.

Only graduates in law or members of the bar are eligible to this degree.

The course embraces a series of lectures covering the following subjects, among others: The organization of the District and Circuit Courts, the Court of Claims, the Circuit Courts of Appeal, the Court of Appeals of the District of Columbia, and of the Supreme Court; the powers of and distribution of jurisdiction among such courts relative to patent suits; the nature of the several kinds of suits that may be brought under the patent statutes; the pleadings appropriate to such suits; the production of evidence in patent causes; the various forms of process and modes of serving the same, and the various incidental details of procedure arising in the practical course of a patent suit; judgments and decrees and the modes of securing the entry of the same; proceedings on appeal, including explanation of forms and pleadings employed in appellate procedure; Patent Office interferences.

In addition to these lectures on pleadings and practice, a Moot Court is held for the trial of patent causes and Patent Office interferences. The court is provided with a clerk and a marshal, and is conducted in such a manner as to familiarize those participating with the details of practice.

procedure so necessary to be known by the practitioner, yet so difficult to be acquired from the books.

Tuition for the course, \$10.

A charge of ten dollars is made for diplomas.

Societies for Legal Debate and Study.

A Debating Society is organized by students of the School for purposes of investigation, discussion, and practice in parliamentary law. This Society holds public exercises under the auspices of the University, at the close of each scholastic year. Special classes ("Quiz clubs") are also formed for purposes of associated study.

Library and Reading-Room.

A Law Library, comprising the works of standard text-writers, the British and American Reports, and books of reference, is open for study and consultation daily from 9 o'clock a. m. to 10 o'clock p. m. The Library is supplied with Law Reviews and Law Periodicals, as well as with other leading reviews and periodicals in science and literature.

Special Facilities.

The Law Library of the United States Supreme Court, containing the largest collection of law books in the country, is open to all who wish to examine any authority or to take notes from any book of reference in ancient or modern jurisprudence. This collection, alike by its variety and its number, lends itself to the study of the world's comparative jurisprudence. The different methods of judicial procedure can be studied at the National Capital not only in the Common Law Courts and Federal Courts of the District of Columbia, but also in the Court of Claims and in the Supreme Court of the United States. The Patent Laws, the Land Laws, and the Pension Laws of the United States are here administered in the Executive Bureaus of the Government.

Examination and Graduation.

The Junior class will be examined at the end of the year upon Blackstone's Commentaries; Kent's Commentaries, vol. 4; Parsons on Con-

tracts; Boies on Bills; Brown on Domestic Relations; Pollock on Torts; and Cooley's Constitutional Law.

All candidates for graduation are required to pass an examination, at the end of the course, on all the studies of the two years, in the presence of the Faculty and of such committee as the Trustees of the University may appoint. This examination is conducted upon printed questions, which are answered by each student in writing.

The degree of Bachelor of Laws is granted to students who have passed both years of the prescribed course in the School, or who, on presenting credentials of equivalent study for the first year in some law college or office, and passing the second year in the School, shall sustain a satisfactory examination in all the studies of both the Junior and Senior classes.

Prizes.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. MYRON M. PARKER, is awarded to the student who passes in each year the best examination for the degree of Bachelor of Laws.

A prize of \$40, called "The Britton Prize" in honor of its founder, Colonel ALEXANDER T. BRITTON, is awarded to the student who passes in each year the best examination for the degree of Master of Laws.

Three prizes, one of \$40, one of \$30, and one of \$20, are annually given to the respective authors of the best three essays among all those handed in by such members of the Senior class as shall compete for them and shall pass a successful examination for the degree of Bachelor of Laws.

A prize of twenty five dollars is awarded annually by Professor Lobor to the student who passes the best examination in International Law, and a similar prize to the student passing the best examination in Politics and Sociology.

Two prizes for excellence in debate are awarded by the Debating Society.

Prize Men in 1895-'96.

M. M. Parker Prize, WILBER ALLEN OWEN.

A. T. Britton Prize, EDGAR H. MAY.

First Essay, WILLIAM H. COLEMAN.

Second Essay, ROBERT E. WILBY.

Third Essay, LEONARD J. MATHER.

First Debater's Prize, WILLIAM E. FORT.

Second Debater's Prize, BENJAMIN MARTIN, JR.

Commencement.

The degrees are publicly conferred and the prizes delivered at the annual commencement of the Law Department, when, in connection with other appropriate exercises, an address is delivered to the graduating class by an eminent member of the bar whom the Faculty may have selected for that purpose.

Expenses.

The entire charge for tuition, lectures, and all the facilities of the School is *eighty dollars* a year, payable in advance, half yearly, or in monthly installments, at the option of students. If a student shall for any cause interrupt the studies of either his first or his second year at any point before graduation, or if, at the close of his second year, he shall fail, for any cause, to be graduated, the payments he may have made during either or both of those years will not work exemption from the regular fees of any subsequent year in which he may attend the School. A charge of *ten dollars* is made for diplomas.

Students from abroad can secure Board at reasonable prices. A list of eligible boarding places is always posted on the Bulletin-board of the University.

Graduates of the School are admitted to all lectures of the undergraduate course in subsequent years without charge.

Admission to the Bar.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the time spent in the Law School of the University is counted as part of the period of study required for admission.

Columbian Law Society.

A society has recently been organized, under the name of the Columbian Law Society, by graduates of the Law School, for the investigation and discussion of practical legal questions and principles, and particularly those relating to the District of Columbia. Regular meetings of the Society are held in the University building on the second Friday of every month except June, July, and August. All graduates of the Law School who have been admitted to the bar of the District of Columbia are invited

to become members of this Society. Further information can be obtained from the President of the Society, Mr. GEO. FRANCIS WILLIAMS, 452 D street northwest, or from its Secretary, Mr. LOUIS A. ROSAPY, 505 Second street northeast.

University Lectures.

Students of the Law School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than law lectures, given in the University Hall by applying to the Dean.

PROJECTED SCHOOL OF COMPARATIVE JURISPRUDENCE.

The Corporation of the University, at the annual meeting in June, 1892, ordained that a "School of Comparative Jurisprudence, according to the plan already approved, be established as an integral part of our University system."

Attention is called to the courses in Politics and Sociology on page 130 as the introductory work of this school.

In this School, as fully developed, it will be sought to carry the study of law into the realm of *jurisprudence*, strictly so called, and to provide a systematic course of *University* studies leading to the degree of Doctor of Philosophy in Law. The juridical thought of the world will here be taught as a history and at the same time as a philosophy, ranging in its survey from the first rude germs of the clan stage of human government to the highest evolutions of juridical science, as seen in the Civil Law of Rome, the Common Law of England, and the growing body of International Law. The codes of particular nations and of successive stages in human culture will be passed in review only so far as they mark the successive stages of human progress along the line of civil institutions—after the manner of Freeman in his "Comparative Politics"—and along the line of legal institutions after the manner of Sir Henry Sumner Maine, Scrutton, Maitland, Vinogradoff, and others. It is designed that scientific studies in comparative anthropology shall form the indispensable preliminary to the special inquiries and task-work pursued in such a school of advanced studies in jurisprudence, so that the laws of the clan, of the tribe, of the village community, of the Greek city-state, of the Roman Empire, and of feudal Europe will be expounded in their proper logical sequence, as preparing the way for a philosophical study of the English Common Law, of American State and Federal jurisprudence, of International Law, of Law Reform, and of Codification.

Schedule of Lectures in the Law School, 1897-'98.

Days.	Hours.	Classes.	Professors.
Monday	6 to 7	Senior Class	W. A. Maury.
Monday	7 to 8	Post-graduate Class	W. A. Maury.
Monday	8 to 9	Post-graduate Class	W. G. Johnson.
Monday	7 to 8	Junior Class	J. M. Harlan.
Monday	8 to 9	Junior and Senior Classes.	D. J. Brewer.
Tuesday	6 to 7	Junior Class	W. S. Cox.
Tuesday	7 to 8	Quiz Junior Class	W. G. Johnson.
Tuesday	8 to 9	Quiz Senior Class	W. G. Johnson.
Wednesday	6 to 7	Senior Class	W. A. Maury.
Wednesday	7 to 8	Post-graduate Class	W. A. Maury.
Wednesday	8 to 9	Post-graduate Class	W. G. Johnson.
Wednesday	7 to 8	Senior and Junior Classes.	J. M. Harlan.
Thursday	6 to 7	Junior Class	W. S. Cox.
Thursday	7 to 8	Quiz Junior Class	W. G. Johnson.
Thursday	8 to 9	Quiz Senior Class	W. G. Johnson.
Friday	6 to 7	Senior Class	W. A. Maury.
Friday	7 to 8	Post-graduate Class	W. A. Maury.
Saturday	6 to 7	Junior Class	W. S. Cox.
Saturday	7 to 8.30	Junior and Senior Classes	J. M. Harlan.

Extraordinary Lectures.

Corporation Law, Professor D. J. BREWER, Mondays at 8 p. m., beginning October 25.

Criminal Law, Professor JEFFORDS, Wednesdays at 8 p. m. after January 1.

Patent Law, Professor BENJAMIN BUTTERWORTH, Thursdays at 8 p. m. during March.

Commercial Law, Professor W. F. MATTINGLY, Wednesdays at 8 p. m. during January.

STUDENTS OF LAW.

Graduate Class in Practice.

Name	Address
George Wilson Baker, District of Columbia.	1715 Q Street, N. W.
LL. B., Columbian University, 1896.	
Rufus H. Baker, New Hampshire.	1447 Concord Street, N. W.
A. B., Dartmouth, 1893.	
LL. B., Columbian University, 1896.	
Frank M. Barnes, Minnesota.	1225 O Street, N. W.
LL. B., Columbian University, 1896.	
Grove Sidney Beardsley, New York.	4704 Connecticut Avenue, N. W.
LL. B., Columbian University, 1896.	
Frank Corey Bliss, Pennsylvania.	329 T Street, N. W.
LL. B., Columbian University, 1896.	
Eugene J. Bogen, Mississippi.	Treasury Department.
LL. B., Columbian University, 1896.	
H. Leroy Browning, Illinois.	4 Eighth Street, S. E.
LL. B., Columbian University, 1896.	
Sherman E. Burnoughs, New Hampshire.	1432 S Street, N. W.
A. B., Dartmouth, 1894.	
LL. B., Columbian University, 1896.	
Charles Benedict Calvert, Maryland.	1750 Concord Street, N. W.
LL. B., Columbian University, 1896.	
George Henry Calvert, Jr., Maryland.	College Park, Maryland.
A. B., Maryland Agricultural College.	
LL. B., Columbian University, 1896.	
Lutier S. Cannon, North Carolina.	1014 Eighth Street, N. W.
A. B., Wake Forest College, 1890.	
LL. B., Columbian University, 1896.	
Harry Lincoln Clapp, Massachusetts.	Room 37, Patent Office.
S. B., Massachusetts Institute of Technology, 1893.	
LL. B., Columbian University, 1896.	
Francis W. H. Clay, Kentucky.	1321 Rhode Island Ave., N. W.
C. E., Cornell University, 1893.	
LL. B., Columbian University, 1896.	

Name	Address
H. Karl Cooke, District of Columbia, LL. B., Columbian University, 1896.	1 Cook Place, N. W.
Guy E. Davis, District of Columbia, LL. B., Columbian University, 1896.	3006 P Street, N. W.
Theodore Taylor Dorman, New Jersey, S. B., Massachusetts Institute of Technology, 1893.	Mount Pleasant, D. C.
LL. B., Columbian University, 1896.	
Bertram Martin Dovic, Kentucky, Ph. B., Riverside Seminary, 1892.	934 I Street, N. W.
LL. B., Columbian University, 1896.	
James M. Fisher, Virginia, LL. B., Columbian University, 1896.	1212 Ninth Street, N. W.
Arthur L. Plagg, Virginia, LL. B., Columbian University, 1896.	903 H Street, N. W.
Justin E. Flannery, Ohio, LL. B., Columbian University, 1896.	Post-Office Department
Arthur Lewis Flint, Ohio, LL. B., Columbian University, 1896.	Patent Office.
John Wesley Gardner, New York, LL. B., Columbian University, 1896.	1145 O Street, N. W.
Arthur Garner, District of Columbia, LL. B., Columbian University, 1896.	McGill Building
Thomas Newcombe Greer, Tennessee, LL. B., Columbian University, 1896.	2313 Pennsylvania Ave., N. W.
Frank Ruthven Hanna, Kansas, LL. B., Columbian University, 1896.	709 Twentieth Street, N. W.
Charles Burkhardt Harding, Pennsylvania, LL. B., Columbian University, 1896.	Mertz Building.
Edward J. Henning, Wisconsin, B. L., University of Michigan, 1894.	1108 Sixteenth Street, N. W.
Granby Hillier, Georgia, LL. B., Columbian University, 1896.	1202 S Street, N. W.
Charles A. Hines, District of Columbia, LL. B., Columbian University, 1896.	Tennallytown, D. C.
Jason Claborn Humbley, Virginia, LL. B., Columbian University, 1896.	1215 I Street, N. W.

Name.	Address
Abraham B. Keefer, Pennsylvania, LL. B., Columbian University, 1896.	1334 Emerson Street, N. E.
Colton H. Lee, District of Columbia, LL. B., Columbian University, 1896.	1620 Fifteenth Street, N. W.
Alexander D. Lunt, New York, M. E., M. M. E., Cornell, B. S., Worcester Polytechnic Institute, LL. B., Columbian University, 1896.	The Lincoln.
Richard L. Mabrey, Missouri, LL. B., Georgetown University, 1896.	302 D Street, N. E.
R. L. Maddox, LL. B., Columbian University, 1893.	1013 P Street, N. W.
Henry Morris Marshall, Virginia, LL. B., Columbian University, 1896.	209 I Street, N. W.
John A. Massie, District of Columbia, LL. B., Columbian University, 1896.	700 Tenth Street, N. W.
Leonard J. Mather, District of Columbia, LL. B., Columbian University, 1896.	520 Third Street, N. W.
John J. McGinn, Indiana, LL. B., Columbian University, 1896.	320 Elm Street, N. W.
Guy Stanley Meloy, Maryland, LL. B., Columbian University, 1896.	118 C Street, N. W.
Wayne Adolphus Mitchell, North Carolina, Noble Moore, Tennessee, LL. B., Columbian University, 1896.	2107 O Street, N. W.
Charles Stothard Murr, LL. B., Columbian University, 1893.	1115 Rhode Island Ave., N. W.
Henry Orth, Jr., District of Columbia, LL. B., Columbian University, 1896.	512 Third Street, N. W.
Wilber Allen Owen, Michigan, LL. B., Columbian University, 1896.	1011 L Street, N. W.
Charles W. Parker, Virginia, LL. B., Columbian University, 1896.	1204 Massachusetts Ave., N. W.
Thornton Jenkins Parker, Rhode Island, LL. B., Columbian University, 1893.	614 F Street, N. W.
Bennett Peck, District of Columbia, LL. B., Columbian University, 1896.	60 Twenty-first Street, N. W.
	3263 O Street, N. W.

Name

Address

Francis Mahan Phelps, Connecticut. LL. B., Columbian University, 1896.	1206 S Street, N. W.
James Franklin Philp, New York. LL. B., Columbian University, 1896.	1822 Sixteenth Street, N. W.
Aurelian Howard Pinney, Iowa. LL. B., Columbian University, 1896.	129 E Street, N. W.
Joseph Herbert Pritchard, A. B., Davis Military School, 1895. LL. B., Wake Forest, 1896.	
J. Castle Ridgway, Illinois. LL. B., Columbian University, 1896.	1632 Seventeenth Street, N. W.
Thomas M. Robertson, North Carolina. LL. B., Columbian University, 1896.	213 Eighth Street, N. E.
Edward Gaston Russell, Georgia. Ph. B., University of Georgia, 1890. LL. B., National University, 1893.	902 M Street, N. W.
J. Martin Scramage, West Virginia. LL. B., Columbian University, 1896.	934 I Street, N. W.
Arthur Bingham Seibold, District of Columbia. LL. B., Columbian University, 1896.	110 Maryland Avenue, N. E.
Alonzo Walter Shunk, Pennsylvania. LL. B., Columbian University, 1896.	716 Eighth Street, N. W.
Henry E. Stauffer, Delaware. LL. B., Columbian University, 1896.	3238 N Street, N. W.
Charles H. Stevenson, Maryland. LL. B., Columbian University, 1896.	U. S. Fish Commission.
Benjamin R. Stuart, Jr., District of Columbia. James A. Tanner, District of Columbia. LL. B., Columbian University, 1896.	1226 Fifteenth Street, N. W.
Blain W. Taylor, West Virginia. LL. B., Columbian University, 1896.	3208 U Street, N. W.
William Hill Taylor, Ohio. LL. B., Columbian University, 1896.	246 Ninth Street, N. E.
Robert Wharton Test, Illinois. LL. B., Columbian University, 1896.	1307 Rowoke Street, N. W.
John Sausfield Tucker, New York. LL. B., Columbian University, 1896.	223 E Street, N. W.
	The Lincoln.

Name	Address
William Pinckney Walker, Ohio, L.L. B., Columbian University, 1896.	936 Twenty-third Street, N. W.
John L. Weaver, District of Columbia, L.L. B., Columbian University, 1896.	Chevy Chase, Maryland.
Robert Emmet Wiley, Arkansas, L.L. B., Columbian University, 1896.	1112 H Street, N. W.
Charles Frederick Wilson, District of Columbia, L.L. B., Columbian University, 1896.	2004 G Street, N. W.
W. Oliver Wise, Ohio, L.L. B., Cincinnati Law College, 1896.	1203 Thirteenth Street, N. W.

Graduate Class in Practice 71

Seniors.

Name	Address
Maurice LeRoy Alden, Kansas, A. B., Kansas University, 1895.	813 Vermont Avenue, N. W.
Robert Lewis Ames, Michigan, B. S., M. E., University of Michigan, 1894.	18 Grant Place, N. W.
Percy Franklin Archer, Maryland.	234 New Jersey Avenue, S. E.
Howell Bartle, District of Columbia.	1347 T Street, N. W.
Louis D. Basye, Virginia.	708 Thirteenth Street, N. W.
Will J. Becker, Illinois, M. E., Royal Polytechnique, Munich.	6 Iowa Circle, N. W.
Frank Moulton Benjamin, Ohio.	509 T Street, N. W.
James Wilson Bevans, District of Colum- bia.	1114 I Street, S. E.
Howard Ray Blanchard, Virginia.	926 North Carolina Ave., S. E.
Preston Boisseau, Virginia.	1111 H Street, N. W.
John Studham Bonbrake, District of Columbia.	917 Third Street, N. W.
Robert Huntington Bosard, North Da- kota.	410 Third Street, N. W.
Philander Adams Bowen, Jr., Maryland.	1410 G Street, N. W.
Stephen Duncan Bradley, District of Co- lumbia.	1688 Thirty-first Street, N. W.

Name

Address

Frank Walter Brandenburg, District of Columbia,	1745 Pennsylvania Ave., N. W.
John Waggaman Brawner, District of Columbia,	Washington Loan and Trust Building
Clark Cleland Briggs, Vermont, A. B., University of Vermont.	917 New York Avenue, N. W.
Harry J. Brown, New Hampshire, B. S., Dartmouth College, 1895.	1432 S Street, N. W.
Arthur Augustine Buck, Massachusetts, B. S., Massachusetts Institute of Technology, 1893.	Patent Office.
Bernard John Cam, District of Columbia,	512 Fifth Street, N. W.
Henry Clay Carlson, Minnesota, J. F. Casey, Louisiana.	1012 Thirteenth Street, N. W.
John Claywood, Montana, B. S., National Normal University, 1896.	The Milton. 1235 New York Avenue, N. W.
Lindley Daniel Clark, Tennessee, A. B., Earlham College, 1886, A. M., Maryville College, 1890.	1207 New Jersey Avenue, N. W.
Oscar DeForest Clarke, District of Columbia.	232 First Street, S. E.
Henry A. Conner, California,	2909 Q Street, N. W.
William Beson Corwin, Pennsylvania,	Atlantic Building
James Louis Cousar, Arkansas,	1017 Twelfth Street, N. W.
William McKissack Crook, Texas,	222 New Jersey Avenue, S. E.
Fred. C. Croxton, Illinois,	907 R Street, N. W.
Clifford T. Curry, Ohio,	802 Eleventh Street, N. W.
George W. Dalzell, New York,	433 Q Street, N. W.
Samuel Dalzell, Pennsylvania,	1605 New Hampshire Avenue, N. W.
Frederick L. Davis, Pennsylvania,	940 K Street, N. W.
Joseph A. Dempf, District of Columbia,	311 F Street, N. E.
John Hibbert De Witt, Tennessee, A. B., Vanderbilt, 1894.	940 New York Avenue, N. W.
Henry Pelouze Donlitle, District of Columbia,	2022 Hilyer Place, N. W.
Laon Lamar Dye, Mississippi,	804 I Street, N. W.
William Lewis English, Illinois,	1415 Q Street, N. W.

Name.	Address.
Samuel Carroll Ford, District of Columbia, A. B. A. M., Columbian University, 1894, 1896.	314 Second Street, S. E.
Rudolph Forster, Virginia,	213 Fifth Street, S. E.
Owen Henry Fowler, District of Columbia,	922 I Street, N. W.
Edward Stuyvesant Frith, Tennessee,	1315 Q Street, N. W.
Augustus Marion Fulk, Arkansas,	1011 M Street, N. W.
Francis Guy Fulk, Arkansas,	1011 M Street, N. W.
L. William Gammon, New York,	Treasury Department.
Frederic Briscoe Goodheart, Tennessee,	636 L Street, N. E.
Truxton Goodrell, District of Columbia,	1823 U Street, N. W.
W. J. Hayes, Ohio,	805 O Street, N. W.
John Thilman Hendrick, Tennessee,	1704 Q Street, N. W.
George Jacob Hesselman, Illinois,	620 I Street, N. W.
Frederick Dayton Hyde, Nebraska,	216 Indiana Avenue, N. W.
James E. Jenks, Minnesota,	1310 Twelfth Street, N. W.
Charles A. Johnson, District of Columbia,	2011 S Street, N. W.
Madison Ralph Jones, California, A. B., University of California.	1115 Rhode Island Ave., N. W.
Frank Keiper, Indiana, A. B., Wabash, 1891. B. M. E., Purdue, 1893. M. E., Purdue, 1894. M. A., Wabash, 1896.	509 Sixth Street, N. W.
James Benton Lackey, District of Columbia,	1612 Q Street, N. W.
John Wilmer Latimer, West Virginia,	1523 Vermont Avenue, N. W.
Henry Leonard, District of Columbia,	626 D Street, S. E.
George Reiss Linkins, District of Columbia,	1923 G Street, N. W.
William Henry Lopp, Indiana,	906 K Street, N. W.
Lewis Henry Machen, Virginia,	Alexandria, Virginia.
George Dallas Mackay, Jr., New Jersey,	Congressional Hotel.
George Mallison, U. S. Navy,	2150 P Street, N. W.
Benjamin Martin, Jr., South Carolina,	1806 S Street, N. W.
Henry Howze McLendon, North Carolina, A. B., Wake Forest, 1896.	1008 N Street, N. W.

Name	Address
William Mehn, Louisiana,	1838 Sixth Street, N. W.
Claude E. Miller, Pennsylvania,	1334 Fifteenth Street, N. W.
David Pelton Moore, District of Columbia,	2029 O Street, N. W.
Elliott Kaye Pennebaker, Kentucky,	1307 F Street, N. W.
George Washington Peterson, Minnesota, A. B., Minnesota University, 1893.	1012 Thirteenth Street, N. W.
Charles E. Phelps, Illinois,	213 North Capitol Street.
Samuel Platt, Nevada,	714 Fifth Street, N. W.
Spencer B. Prentiss, District of Columbia,	1218 Ninth Street, N. W.
Ralph H. Riddleberger, Virginia,	1601 Fifteenth Street, N. W.
Frederick Dillow Riggles, Virginia,	2121 G Street, N. W.
Webster S. Ruckman, Michigan, B. S., University of Michigan, 1887.	422 C Street, N. E.
Herbert Cooper Sanford, Wisconsin, B. L., Lawrence University, 1893.	1132 Fifth Street, N. W.
Edward Thomas Scully, Massachusetts, B. A., Williams, 1894.	1234 Massachusetts Ave., N. W.
Joe Powell Shoup, Iowa,	29 Grant Place, N. W.
Joseph Roy Showalter, Pennsylvania,	1235 New York Avenue, N. W.
Charles S. Shreve, Jr., District of Columbia,	1543 Eighth Street, N. W.
Harvey Faris Smith, West Virginia, B. A. in Law University of West Virginia.	1514 Twelfth Street, N. W.
William Martin Smith, Ohio,	92 M Street, N. W.
Gordon Sowers, District of Columbia,	6 Cooke Place, N. W.
Augustus Franklin Specht, Pennsylvania,	142 O Street, N. E.
John Martin Spellman, Texas,	933 H Street, N. W.
William Stephen Stamper, Virginia,	Department of Agriculture.
John Walton Steward, District of Columbia,	508 C Street, S. E.
Judson M. Strickland, Georgia, A. B., LL. B., Mercer University.	933 H Street, N. W.
Willis Eugene Sullivan, Idaho,	1621 Thirteenth Street, N. W.
Otho H. W. Talbott, Maryland,	Rockville, Maryland.
Fred L. Tarbox, New York,	901 First Street, S. E.
Joe. Lilburn Thomas, Jr., Missouri,	1456 Euclid Place, N. W.

Name	Address
George Prescott Tucker, Nebraska, B. S., Worcester Polytechnic Insti- tute	633 G Street, N. E. 1257 Twenty-third Street, N. W. The Buckingham.
Warder Voorhees, Ohio.	U. S. Fish Commission.
Percy G. Wallino, Connecticut.	1316 V Street, N. W.
Harry O. Weaver, Ohio.	The Westminster.
Ferdinand Albert Weiler, District of Co- lumbia.	1725 Twenty-first Street, N. W.
Cyrus Campbell Wells, Illinois.	Patent Office.
Joseph Wickes Welsh.	Treasury Department.
William Francis Woolard, Illinois.	
William G. Worrell, Virginia.	
Seniors	103

Juniors.

Name	Address
Isaac Q. H. Alward, District of Columbia.	1518 Caroline Street, N. W.
Henry Beard Armes, New Jersey, A. B., Princeton, 1896.	Fifteenth Street and Kenesaw Avenue, N. W.
Chester Averill, Massachusetts.	1234 Massachusetts Ave., N. W.
Harry A. Auer, Michigan.	315 S Street, N. E.
William W. Barclay, District of Colum- bia.	1510 H Street, N. W.
Edward Franklin Beekman, Wisconsin.	707 I Street, N. W.
Alexander Garner Bentley, District of Columbia. A. B., Yale, 1896.	1416 Ninth Street, N. W.
Henry Thurman Bright, District of Co- lumbia.	517 A Street, S. E.
Frederick Harmon Blackford, District of Columbia.	714 North Carolina Ave., S. E.
Louis Brooks, Georgia.	809 Eleventh Street, N. W.
James Henderson Bandren, Tennessee, B. S., Carson-Newman, 1894.	59 Fourth Street, N. W.
Royal Edwin Burnham, District of Co- lumbia.	103 C Street, S. E.
Dixson H. Bynum, Indiana.	908 Fifteenth Street, N. W.

Name	Address
Charles Taylor Carter, District of Columbia.	937 Virginia Avenue, S. W.
George Phillips Chase, District of Columbia.	810 Eleventh Street, N. W.
B. S., University of Pennsylvania, 1895.	
Willoughby Sprigg Chesley, Maryland.	1737 Seventeenth Street, N. W.
Frank M. Church, New Jersey.	507 Fourth Street, N. W.
B. S., Georgetown, Ky., 1896.	
Walter Beaumont Clarkson, Virginia.	1706 F Street, N. W.
Walter Edwin Clendaniel, District of Columbia.	222 Eleventh Street, S. E.
Joseph S. Cornish, Arkansas.	Langdon, D. C.
Frank Wiley Crist, Illinois.	1304 Riggs Street, N. W.
Edgar V. Crittenden, West Virginia.	200 I Street, N. W.
John Charles Dabney, Virginia.	1723 G Street, N. W.
B. S., Virginia Polytechnic Institute, 1895.	
John Bernard Dahlgren, District of Columbia.	6 Lafayette Square, N. W.
E. E., Lehigh, 1890.	
Hammett S. Delaplane, Virginia.	808 Fifth Street, N. E.
Andrew Devine, Jr., New York.	1408 Thirty first Street, N. W.
Henry George Disch, Wisconsin.	100 Massachusetts Ave., N. E.
David R. Dixon, Mississippi.	1233 New York Avenue, N. W.
Moncena M. Dodge, Maine.	940 New York Avenue, N. W.
Charles F. Du Bois, District of Columbia.	2928 Sixteenth Street, N. W.
Mortimer Du Perow, Canada.	527 Fifteenth Street, N. W.
Ogden Ellery Edwards, Jr., New York.	1906 H Street, N. W.
B. S., Alabama Polytechnic Institute.	
William McElfresh Ellison, Virginia.	West End, Virginia
Leon Moyer Estabrook, Texas.	1801 E Street, N. W.
Samuel Henry Evans, Virginia.	1317 R Street, N. W.
Joseph Domphan Felix, North Carolina.	1527 I Street, N. W.
Harry Franklin Flynn, Ohio.	Coast Survey.
C. E., Ohio State University.	
Claude S. Frost, New York.	2020 F Street, N. W.
Wiley Harrison Grandy, North Carolina.	1025 Connecticut Ave., N. W.

Name	Address
Charles H. Gray, Nebraska,	728 Ninth Street, N. E.
John P. Gray, Idaho,	1014 Fifteenth Street, N. W.
Eugene Grissom, Jr., North Carolina,	1106 H Street, N. E.
Frederick L. Grosvenor, Ohio,	1210 G Street, N. W.
Charlie Oscar Guynes, Mississippi, B. L., Mississippi.	804 I Street, N. W.
Frederick Charle Handy, Virginia,	1331 Twelfth Street, N. W.
John Tyre Harris, Missouri,	1220 Eleventh Street, N. W.
Thomas W. Haworth, New York,	505 Third Street, N. W.
Frederick Leith Hemmings, Illinois,	513 Thirteenth Street, N. W.
Edward Clement Henrotin, Illinois,	1726 N Street, N. W.
Jesse Hicks, Virginia,	1527 I Street, N. W.
Franklin P. Hobgood, Jr., North Caro- lina,	1527 I Street, N. W.
A. B., Wake Forest, 1896.	
Pearce Horne, Jr., District of Columbia,	1300 Pennsylvania Ave., N. W.
Oscar C. Huffman, Virginia,	906 Fourteenth Street, N. W.
George Johannes, Pennsylvania,	228 Morgan Street, N. W.
James E. Jones, Ohio,	Department of Agriculture.
Adolph G. Keyser, District of Columbia,	2019 Massachusetts Ave., N. W.
William Franklin Kirk, Texas,	Department of Labor.
Joseph Bayard Lanekin, Georgia,	Interior Department.
Harry Holbrook Lee, Ohio,	1620 Fifteenth Street, N. W.
William Hartley Lewis, Connecticut,	3009 Cambridge Place, N. W.
William Grant Lienallen, Washington,	716 Eighth Street, N. W.
Charles Linkins, District of Columbia,	1923 G Street, N. W.
Edwin Osborne Loucks, Illinois,	1911 Fourth Street, N. W.
Wardlaw MacGill Mason, Maryland,	Rockville, Maryland.
John Warren Matson, Michigan,	Hôtel Vendôme.
Charles Eugene Matthews, Oklahoma,	508 Ninth Street, N. W.
William Francis Mattingly, District of Columbia,	1616 H Street, N. W.
A. B., Princeton, 1896.	
John Richmond McCain, Alabama,	934 New York Avenue, N. W.
A. B., Lineville.	
Lewin Stewart McDonald, District of Co- lumbia,	717 North Carolina Ave., S. E.
McKee Dunn McKee, District of Colum- bia,	1753 Rhode Island Ave., N. W.
A. B., Yale, 1896.	

Name	Address
Frederick Vallette McKenzie, Kentucky,	809 H Street, N. W.
Wallace Donald McLean, District of Columbia,	1414 Park Street, N. W.
A. B., Princeton, 1896.	
David H. Mead, District of Columbia,	900 F Street, N. W.
Willbur F. Melbourne, Missouri,	3043 P Street, N. W.
Harry Platt Moore, Maryland,	1410 Pennsylvania Ave., N. W.
Alston Brimnall Moulton, Massachusetts,	1850 Fifth Street, N. W.
B. S., Worcester Polytechnic Institute.	
Graham B. Nichol, Indiana,	113 Maryland Avenue, S. E.
Herbert G. Ogden, District of Columbia,	1610 Riggs Place, N. W.
E. E., Cornell, 1896.	
Robert Taylor Oliver, District of Columbia,	1725 Riggs Place, N. W.
Paul V. Overton, Texas,	1320 U Street, N. W.
John Isaac Painter, Iowa,	407 First Street, N. W.
A. B., Drake University.	
Charles Wellman Parks, New York,	1829 Carcoran Street, N. W.
Samuel Scoville Paschal, District of Columbia,	1343 Fifteenth Street, N. W.
Adam C. Perkins, Georgia,	408 Rhode Island Ave., N. W.
Charles W. Philipbar, Pennsylvania,	603 Pennsylvania Ave., S. E.
Henry Hill Pierce, Maine,	1529 Rhode Island Ave., N. W.
A. B., Bowdoin, 1896.	
Frederick R. Proctor, Washington,	605 Howard Avenue, N. W.
Charles Edward Rappolee, Kentucky,	1005 Thirteenth Street, N. W.
George S. Rees, West Virginia,	911 New York Avenue, N. W.
Ernest Rice, Maine,	1309 H Street, N. W.
Willard A. Rill, New York,	1224 F Street, N. W.
Walter W. H. Robinson, Maryland,	1824 G Street, N. W.
Algernon Sartoris, District of Columbia,	2111 Massachusetts Ave., N. W.
Earle W. Seitz, Missouri,	202 E Street, N. W.
Armin Frederick Sellhausen, District of Columbia,	510 D Street, S. E.
Walter Conwell Shoup, New York,	29 Grant Place, N. W.
A. B., Columbia, 1896.	
William Morgan Shuster, District of Columbia,	1408 Fifteenth Street, N. W.

Name	Address
Charles W. Slater, District of Columbia,	324 B Street, S. E.
Herbert McKelden Smith, District of Columbia,	1508 Twenty-first Street, N. W.
Walter Scott Smith, Alabama, A. B., Lineville, 1896.	934 New York Avenue, N. W.
Theodore Thomas Snell, District of Columbia,	Box 36, 900 F Street, N. W.
John J. Snodgrass, District of Columbia,	520 Twenty-first Street, N. W.
Benjamin Pettit Snyder, District of Columbia,	15th St. & N. Y. Ave., N. W.
George Speidel, Jr., Pennsylvania,	1311 Emerson Street, N. E.
Alexander Spotswood, Virginia,	736 Twelfth Street, N. W.
Paul Walter Stevens, Georgia,	901 Thirteenth Street, N. W.
Oliver C. Stine, Illinois,	138 E Street, N. E.
William C. Stone, District of Columbia,	Brightwood, D. C.
John L. Stout, Jr., Kentucky,	507 Fourth Street, N. W.
Barnwell S. Stuart, District of Columbia,	1515 Thirty-first Street, N. W.
George O. Swartz, Ohio,	1505 T Street, N. W.
Galen Lamar Tait, District of Columbia,	1718 Q Street, N. W.
Sutenmatsu Teshima, Japan,	Japanese Legation.
William M. Thompson, New Jersey,	1719 Fourteenth Street, N. W.
Philip Tindall, District of Columbia,	2105 California Avenue, N. W.
Forest Paul Tralles, District of Columbia,	808 Seventh Street, N. W.
Walter Urbach Varney, Virginia,	Arlington, Virginia.
Albert M. Walker, Iowa,	2311 Pennsylvania Ave., N. W.
Frederic Parkman Warfield, New York, A. B., Hamilton, 1896.	1013 H Street, N. W.
Thomas David Watkins, Kentucky, A. B., Bethel, 1896.	715 M Street, N. W.
Arthur D. Weakley, Illinois, D. D. S., University of Pennsylvania, 1894.	207 A Street, S. E.
Herbert Arthur White, U. S. Army, U. S. Military Academy.	Fort Myer, Virginia.
Frederick Jewett Wincheat, New Jersey,	1513 R Street, N. W.
Webster Harlan Wilkinson, Illinois,	1537 Fifteenth Street, N. W.
Willard B. Wilson, Illinois,	Patent Office.
Jesse Marion Woodward, Kentucky,	Patent Office.
John Womack Wright, Tennessee,	1724 Corcoran Street, N. W.

Junior students 127

Students in Patent Law.

Name	Address
Cyrus Nathan Anderson, Mississippi.	2119 F Street, N. W.
John De Witt Arnold, District of Columbia.	1707 Twenty-first Street, N. W.
LL. B., Georgetown, 1893.	
LL. M., Georgetown, 1894.	
George F. Daggett, Maine.	511 Tenth Street, N. W.
LL. M., Columbian University, 1894.	
Frank Parker Davis, District of Columbia.	900 F Street, N. W.
LL. B., Columbian University, 1896.	
Richard J. Donnelly, District of Columbia.	715 Ninth Street, N. W.
Reeve Lewis, District of Columbia.	620 F Street, N. W.
LL. B., Columbian University, 1896.	
Emerson R. Newell, Connecticut.	Patent Office.
A. B., Yale, 1893.	
LL. M., Columbian University, 1896.	
J. Van Ness Philip, New York.	344 D Street, N. W.
LL. B., Columbian University, 1893.	
Cassell Severance, District of Columbia.	317 Spruce Street, N. W.
LL. M., Columbian University.	
Augustus B. Tolman, Massachusetts.	905 Westminster Street, N. W.
LL. M., Columbian University, 1893.	
Horace Greely Van Everen, New York.	533 Twentieth Street, N. W.
M. E., Cornell, 1891.	
LL. M., Columbian University, 1896.	
John Chalmers Wilson, Maryland.	930 F Street, N. W.
LL. B., Columbian University, 1894.	
LL. M., Columbian University, 1895.	
Ralph Wormelle, District of Columbia.	207 Elm Street, N. W.
LL. B., National, 1894.	
LL. M., National, 1895.	

Students in Patent Law — — — 13

Lecture Students.

Name	Address
Charles K. Bell, Texas,	National Hotel.
Henderson R. Dysard, Kentucky,	428 College Street, N. W.
John H. Hinton, Missouri,	1209 K Street, N. W.
LL. B., Cumberland, 1879.	
George C. Pendleton, Texas,	615 Sixth Street, N. W.

RECAPITULATION.

Graduate Class in Practice,	71
Seniors	103
Juniors	127
Students in Patent Law	13
Lecture Students	4
Total	318

THE MEDICAL SCHOOL.

The Faculty.

THE REV. BENJAMIN L. WHITMAN, D. D.,
President.

D. KERFOOT SHUTE, M. D.,
Dean and Professor of Anatomy.

N. S. LINCOLN, M. D.,
Emeritus Professor of Surgery.

J. FORD THOMPSON, M. D.,
Professor of Surgery and President of the Faculty.

WILLIAM W. JOHNSTON, M. D.,
Professor of the Theory and Practice of Medicine and Professor of Clinical Medicine.

ALBERT F. A. KING, M. D.,
Professor of Obstetrics and the Diseases of Women and Children and
Dean Emeritus.

D. WEBSTER PRENTISS, M. D.,
Professor of Materia Medica and Therapeutics.

E. A. DE SCHWEINITZ, M. D.,
Professor of Chemistry and Toxicology and Secretary-Treasurer.

WILLIAM P. CARR, M. D.,
Professor of Physiology.

H. C. YARROW, M. D.,
Professor of Dermatology.

GEORGE BYRD HARRISON, M. D.,
Professor of Pediatrics and Professor of Clinical Medicine.

(155)

HENRY L. E. JOHNSON, M. D.,

Professor of Gynecology and Professor of Clinical Gynecology.

THOMAS E. McARDLE, M. D.,

Professor of Minor Surgery.

WILLIAM K. BUTLER, M. D.,

Professor of Ophthalmology and Professor of Clinical Ophthalmology

STERLING RUFFIN, M. D.,

Professor of Medical Jurisprudence.

CHARLES W. RICHARDSON, M. D.,

Professor of Laryngology and Otology and Professor of Clinical
Laryngology and Otology.

GEORGE W. FOSTER, M. D.,

Professor of Mental Diseases.

EDMUND L. TOMPKINS, M. D.,

Professor and Clinical Professor of Nervous Diseases.

W. S. WASHBURN, M. D.,

Assistant Professor of Normal Histology.

A. R. SHANDS, M. D.,

Professor of Orthopedic Surgery.

JOHN VAN RENSSELAER, M. D.,

Professor of Surgical Pathology and Professor of Clinical Surgery.

WALTER REED, M. D.,

Professor of Pathology and Bacteriology.

W. E. R. PHILLIPS, M. D.,

Professor of Hygiene.

GEORGE N. ACKER, M. D.,

Professor of Clinical Medicine and Clinical Professor of the Diseases
of Children.

G. WYTHE COOK, M. D.,

Professor of Clinical Medicine.

J. W. ROVÉE, M. D.,
Professor of Clinical Gynecology.

RANDOLPH B. CARMICHAEL, M. D.,
Professor of Clinical Dermatology.

T. RITCHIE STONE, M. D.,
Clinical Professor of Genito-Urinary Diseases.

OSCAR A. M. McKIMMIE, M. D., 1333 N. Street, N. W.,
Examiner of Applicants for Matriculation.

Demonstrators.

STERLING RUFFIN, M. D.,
Demonstrator of Anatomy.

E. G. SEIBERT, M. D.,
Demonstrator of Chemistry.

FRANCIS P. MORGAN, M. D.,
Assistant Professor of Pharmacology and Assistant to the Chair of
Materia Medica and Therapeutics.

L. W. GLAZEBROOK, M. D.,
Curator of the Museum.

W. S. WASHBURN, M. D.,
Demonstrator of Normal Histology.

W. F. R. PHILLIPS, M. D.,
JOHN R. WELLINGTON, M. D.,

PRESTLEY C. HUNT, M. D.,
JAMES ROBB CHURCH, M. D.,

VIRGIL B. JACKSON, M. D.,
JAMES STUART, M. D.,

W. M. WOOSTER, M. D.,
GEORGE B. HEINECKE, M. D.,

A. B. HOOE, M. D.,
Assistant Demonstrators of Anatomy.

GEORGE B. HEINECKE, M. D.,
LINCOLN JOHNSON, M. D.,
WILLIAM O. WETMORE, M. D.,
Prosecutors to the Chair of Anatomy.

JOHN R. WELLINGTON, M. D.,
FRANK LEECH, M. D.,
Demonstrators of Minor Surgery.

EDWARD E. MORSE, M. D.,
Demonstrator of Obstetrics.

JAMES CARROLL, M. D.,
MARION DORSET, M. D.,
Demonstrators of Pathology and Bacteriology.

T. A. CLAYTOR, M. D.,
Assistant to the Chair of Theory and Practice of Medicine.

The Seventy-sixth Course of Lectures begins on Wednesday, September 29, 1897.

The Introductory Lecture of the Course will be delivered by Prof. W. P. Carr on the 29th of September, and the regular lectures will continue throughout the season, beginning at 5.30 p. m. of each week day.

The system of instruction adopted by the Medical Department of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otology, Laryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Paediatrics, Minor Surgery, Histology, Pathological Histology, Orthopedic Surgery, and Surgical Pathology.

These lectures are combined with clinical instruction in the various hospitals and dispensaries of the city. In these clinics the student is made familiar with the methods of examining patients, analyzing symptoms, making a diagnosis and prognosis of the cases, and recording medical histories. He is also taught to prescribe medicines and observe their effects, and to perform surgical operations.

Laboratory instruction is given in Chemistry, Histology and Pathological Histology, Bacteriology and Pharmacology.

University Lectures.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than Law lectures, given in the University Hall by applying to the Dean.

Advantages of Washington for Medical Study.

LIBRARIES, ARMY MEDICAL MUSEUM, NATIONAL MUSEUM, ETC.

The location of the University at the seat of the National Capital affords several striking advantages to the medical student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office, all of which contain rare and costly works in every department of science and literature. The Army Medical Museum is also open for inspection daily from 9 to 3 o'clock. With its unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind, this Museum presents a field for study superior to any other institution of the kind, either in this country or Europe.

Apart from these considerations, students from a distance have the opportunity of spending a winter profitably at the seat of the National Government during the sessions of Congress, the college lectures beginning at 5.30 in the evening. Ample time is afforded during the term for visiting the public buildings, works of art, and other places of interest to a stranger. Prominent among these may be mentioned the new National Museum, established in connection with the Smithsonian Institution. Here may be seen fully classified collections illustrating the arts and industries of the country, and, of special interest to the medical student, there is found in this Museum the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package in which they are imported or marketed to the delicate alkaloid constituting the active principle.

Of great interest also are the Government Botanical Gardens and the grounds of the Agricultural Department, where the student of botany may find a rare collection of medicinal plants, from which are derived many of the preparations of the *Materia Medica*.

At the United States Patent Office models of many curious medical and surgical instruments may be daily inspected from 9 to 3 o'clock, thus affording to the student an opportunity of studying the mechanical contrivances used in medicine, surgery, and obstetrics that is not to be obtained in any other city.

GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

Surgery.

PROFESSOR THOMPSON,

One of the Attending Surgeons to the Children's Hospital and to the Garfield General Hospital.

The course will embrace Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical Instruction at the College.

Professor THOMPSON being the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institutions.

Every effort will be made to teach Surgery in accordance with the latest developments of scientific research. At the College operations will be performed upon the cadaver, and the use of all important surgical instruments and appliances will be demonstrated in the same manner.

MINOR SURGERY.—Practical class instruction will be given by Professor McArdle and his Assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

Theory and Practice of Medicine.

PROFESSOR JOHNSTON,

One of the Consulting Physicians to the Children's Hospital, to the Garfield Hospital, and to the Central Dispensary and Emergency Hospital.

The Course of Lectures on the Theory and Practice of Medicine begins with the consideration of the pathological anatomy and symptomatology of the general morbid processes, which occur in many diseases, and to which all the structures of the body are liable. General or constitutional diseases and local diseases, or diseases of organs, are described in order.

As the subjects taught from the Chair are so numerous and cover so wide a field, two years are required to complete the course. The lectures of each year, therefore, form a distinct and complete series, and it is necessary for the student to follow attentively the Lectures during two successive years in order to finish his studies in this branch.

The courses on Histology and Pathological Histology cannot be neglected without serious detriment to progress, and are absolutely necessary to a complete understanding of the studies of this Chair. They are considered obligatory studies.

The hospitals and dispensaries of the city afford abundant opportunity for the observation of disease, and no chance should be lost to gain a practical knowledge of the methods of examining cases and of the art of diagnosis. The student should also make an effort to study morbid anatomy by witnessing as many autopsies as is possible, for in this way only can he acquire definite and clear ideas of the appearance of morbid tissues.

Obstetrics and the Diseases of Women and Children.

PROFESSOR KING,

One of the Consulting Physicians to the Children's Hospital

This Course will comprise a series of Lectures on the Science and Practice of Midwifery, together with additional Lectures on Gynecology. The main purpose of the Lecturer will be to explain, impress, and simplify the matters to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. With this view the Lectures will be illustrated by diagrams, models, natural preparations, manikins, and instruments.

Mattison's new elastic manikin, for demonstrating obstetrical operations, has been added to the illustrative apparatus.

Dr. Edward E. Morse will conduct a course of Operative Obstetrics upon the manikin, which every student of the fourth year class will be *required* to attend before being admitted to the final examination unless he present official evidence of having attended a similar course of instruction in some other institution.

In the Department of Gynecology the various instruments and appliances required in treating the Diseases of Women will be exhibited and their uses fully explained.

Materia Medica and Therapeutics.

PROFESSOR PRENTISS.

One of the Consulting Physicians to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

In the course of instruction pertaining to this Chair especial prominence will be given to the Physiological action of medicines and their therapeutic uses.

The value of a knowledge of Pharmacy and of the Natural History and Chemical Relations of the *Materia Medica* is not overlooked, but time does not admit of their being considered in great detail in the lecture-room. They are rather proper subjects for recess study.

The art of prescribing will have a place in the consideration of individual drugs, particularly with reference to appropriate combinations, much of the success of the practitioner depending upon the practical application of his knowledge in the sick room.

It will be the endeavor of Professor Prentiss to make his instruction as practical as possible. The lectures will be supplemented by working prescriptions and blackboard illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

A Pharmacological Laboratory exists in connection with the Chair of *Materia Medica* and Therapeutics, a brief description of which is given below.

Anatomy.

PROFESSOR SHUTE.

Ophthalmic Surgeon to the Washington Hospital for Foundlings and to the South Washington Free Dispensary.

This course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body to qualify one for the practice of medicine may be acquired during the two courses of Lectures from the Chair, which each student attends, if at the same time he do his duty in the dissecting-room.

The Lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopicon will also

be employed constantly to present photographic views of many regions of the body.

Special attention will be given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the Medical Profession.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors will prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting room.

PRACTICAL ANATOMY.—The dissecting-room of this College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied at a moderate price, only sufficient to cover the expense of procuring and preparing it. The room is open both during the day and night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who is present *at stated hours* to give personal attention to the students and properly instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

Chemistry and Toxicology.

PROFESSOR DE SCHWEINITZ.

Chief Chemist of the Biochemic Laboratory, Bureau of Animal Industry, Department of Agriculture.

This course embraces

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals: their methods of isolation, properties, compounds, and reactions, will be studied.

Due attention will be given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction will be given in the general methods of qualitative and quantitative analysis, toxicology, urine analysis, water analysis, and special clinical analyses.

Opportunity for advanced work in biochemistry will be afforded.

Physiology.

PROFESSOR CARR.

Every effort will be made to teach this subject in a thorough, scientific, and practical manner. The ground will be fully covered by a two years' course of Lectures, and these Lectures so illustrated by modern diagrams, models, and experiments as to make them perfectly clear in every detail. Especial emphasis will be given to those truths that have a practical value.

Physiological anatomy will receive especial attention, and will be illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anesthetized living animals when necessary to a thorough understanding of the subject. Physiological anatomy will also be taught by Professor Moore in the Laboratory and an opportunity will be given students to do practical physiological work as far as their time will permit.

Dermatology.

PROFESSOR YARROW.

Professor YARROW will give a course of Lectures on this branch, illustrated by diagrams, models, and the exhibition of cases.

Pædiatrics.

PROFESSOR HARRISON.

In Charge of the Department of General Medicine, Central Dispensary and Emergency Hospital.

Professor HARRISON will lecture upon diseases of infants and children and the importance of their proper management by diet and hygiene.

Gynecology.

PROFESSOR JOHNSON.

In Charge of the Department of Gynecology, Central Dispensary and Emergency Hospital.

Professor JOHNSON will illustrate his lectures upon the diseases peculiar to women by clinical demonstrations at the hospital.

Minor Surgery.**PROFESSOR McARDLE.**

One of the Assistant Physicians to the Children's Hospital.

Professor McARDLE's course in Minor Surgery will consist of lectures and practical demonstrations. Under the supervision of his assistants, the students will apply themselves the various splints, bandages, surgical dressings, etc.

Ophthalmology.**PROFESSOR BUTLER.**

In Charge of the Lutheran Eye and Ear Infirmary.

Professor BUTLER will give a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

Medical Jurisprudence.**PROFESSOR RUFFIN.**

One of the Visiting Physicians to the Home for Incapables.

Professor RUFFIN will deal with the relations of Physicians to matters under legal investigation. This course will cover as fully and practically as possible the more important subjects of forensic medicine. Students will be taught how to give expert testimony and how to conduct themselves as medical witnesses.

Laryngology and Otology.**PROFESSOR RICHARDSON.**

Laryngologist to the Providence Hospital.

This course will comprise lectures on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical instruction will be given in the use of the laryngoscope and other instruments required in these special branches.

Mental Diseases.**PROFESSOR FOSTER,**

One of the Assistant Physicians to the Government Hospital for the Insane,
St. Elizabeth.

A series of lectures will be given upon the subject of insanity in its varied forms. Clinical instruction will also be given at the hospital.

Nervous Diseases.**PROFESSOR TOMPKINS,**

In charge of the Department of Nervous Diseases at the Central Dispensary and
Emergency Hospital.

Professor TOMPKINS will lecture upon the more common and important of these affections.

Surgical Pathology.**PROFESSOR VAN RENSSELAER,**

One of the Surgeons to the Cortland Hospital.

Dr. VAN RENSSELAER will give a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

Orthopedic Surgery.**PROFESSOR SILANDS,**

This course will embrace didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction of treatment of the same according to the most modern orthopedic methods.

Special attention will be given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures; also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction will be given in the application and use of plaster of paris in treatment of Pott's Disease, Scoliosis, Club Feet, etc.

Hygiene.**PROFESSOR PHILLIPS,**

In charge of the Section of Climatology and Editor of *Climate and Health*,
U. S. Weather Bureau.

The course in hygiene will be directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation of health and the prevention of disease, and will comprise the consideration of the laws of hygiene as applied to the individual and to the community.

Histology.**ASSISTANT PROFESSOR WASHBURN.**

The study of Histology is compulsory for students in the second year of their course. Special attention is given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of tissues. This is followed by a systematic study of the cellular structure of the elementary tissues and organs of the body. The histological laboratory is equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations are held at the close of the session.

Pathology and Bacteriology.**PROFESSOR REED.**

Curator of the Army Medical Museum and Professor of Clinical and Sanitary
Microscopy in the Army Medical School.

The course in Pathology begins with the study of inflammation, and takes up, in regular order, the pathological histology of the different tissues and organs of the body. Microscopical sections are given to be stained, mounted, and carefully studied and drawn.

Opportunities will be afforded to witness post mortem examinations from time to time, which is considered a part of the pathological course.

In connection with the demonstration of fresh pathological material, use will be made of frozen microscopical sections of the fresh specimens.

In addition to the foregoing, examination of blood and urine is included as a part of the course in Pathology.

The Bacteriological course will consist of practical work in the bacteriological laboratory. The student is here taught the preparation of culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. Familiarity with the pathogenic bacteria is considered the most important part of this course.

Pharmacology.

ASSISTANT PROFESSOR MORGAN.

Instruction in this branch will be confined to the laboratory. The students will be taught the method of making the different Pharmaceutical Preparations, such as tinctures, fluid extracts, syrups, emulsions, and the like.

They will also be taught the compounding of prescriptions, the proper excipients for pills, incompatibles, especially such as produce dangerous compounds, and will be expected actually to compound working formulæ.

Laboratory Instruction.

The new laboratories have been furnished with the necessary apparatus and with all modern appliances for practical instruction in Chemistry, Bacteriology, Normal and Pathological Histology, and Pharmacology, as above described.

During the past year the Faculty have prepared a room for a Pathological Museum and equipped it with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the deputy coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the Museum.

Clinical Instruction.

Attendance upon Clinical Instruction in Medicine and Surgery, during at least two years, is required, and upon other clinics as indicated by the special clinical card, and when the student presents himself for examination a certificate to this effect must be furnished.

CAMPBELL HOSPITAL.—Clinical Lectures will be given regularly during the session by Professor THOMPSON on Surgery, and by Professors ACKER and COOK on Medicine. A great variety of medical and surgical diseases

is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

CHILDREN'S HOSPITAL.—A weekly course of Medical and Surgical Clinics will be given by Professors W. W. JOHNSON, THOMSON, and ACKER. An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.—Professors HARRISON, with Dr. SHANDS, in charge of the department of general medicine, TOMPKINS, in charge of nervous diseases, and H. L. E. JOHNSON, in charge of the department of diseases of women, will conduct courses of instruction in their respective branches, also Dr. CARMICHAEL, in dermatology, and Dr. STONE, in genito-urinary diseases.

PROVIDENCE HOSPITAL.—Clinical instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Professor J. W. BOYLE.

LUTHERAN EYE AND EAR INFIRMARY.—The diseases of the eye and ear in this hospital will be exhibited during the clinics of Professor BUTLER.

Requirements for Matriculation and Graduation.

I. Matriculants will be required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments from some college.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra or Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be admitted to matriculation.

Students desiring instruction in Latin, Physics, etc., may obtain it from Dr. O. A. M. McKIMMIE, 1333 N Street, N. W., to whom they are referred for particulars as to the arrangement of time, fees, etc.

II. Candidates for the degree of Doctor of Medicine must have attended four courses of lectures, the subjects arranged as follows:

FIRST YEAR.

Anatomy. — Two lectures per week before Christmas; three lectures per week after Christmas.

Physiology. — Two lectures per week before Christmas; three lectures per week after Christmas.

Chemistry. — Three lectures per week before Christmas; two lectures per week after Christmas.

Materia Medica and Pharmacology. — Three lectures per week before Christmas; two lectures per week after Christmas; one hour laboratory work.

Practical Anatomy. — Dissection-room open during the day and until 12 o'clock at night.

Examination at the end of the year upon the above-named subjects.

SECOND YEAR.

Anatomy. — Two lectures per week before Christmas; three lectures per week after Christmas.

Physiology. — Two lectures per week before Christmas; three lectures per week after Christmas.

Chemistry. — Three lectures per week before Christmas; two lectures per week after Christmas; four hours laboratory work.

Materia Medica and Pharmacology. — Three lectures per week before Christmas; two lectures per week after Christmas; one hour laboratory work.

Histology. — Laboratory.

Practical Anatomy. — Dissection room open all day and until 12 o'clock at night.

Examination at the end of this year upon the above-named subjects.

THIRD YEAR.

Surgery. — Three lectures per week before Christmas; two lectures per week after Christmas.

Medicine. — Two lectures per week before Christmas; three lectures per week after Christmas.

Obstetrics. — Three lectures per week before Christmas; two lectures per week after Christmas.

Minor Surgery. — One lecture per week from October 7 to December 16, bandaging, etc., in the manikin-room.

Dermatology. — One lecture per week from January 4 to March 15.

Ophthalmology. — One lecture per week from October 5 to December 7.

Bacteriology and Pathology. — Eight hours laboratory work per week.

Surgical Pathology. — One lecture per week from October 2 to December 4.

Clinics.

Examination on the above-named subjects at the end of the year.

FOURTH YEAR

Surgery. — Three lectures per week before Christmas; two lectures per week after Christmas.

Medicine. — Two lectures per week before Christmas; three lectures per week after Christmas.

Obstetrics. — Three lectures per week before Christmas; two lectures per week after Christmas.

Gynecology. — One lecture per week from January 6 to March 10.

Mental Diseases. — One lecture per week from January 4 to March 15.

Medical Jurisprudence. — One lecture per week from October 7 to December 16.

Nervous Diseases. — One lecture per week from January 8 to March 12.

Pediatrics. — One lecture per week from October 4 to December 6.

Otology and Laryngology. — One hour per week from November 1 to December 20, and from January 3 to March 21.

Orthopedic Surgery. — One lecture per week from January 8 to March 12.

Hygiene. — One lecture per week from January 5 to March 9.

Clinics.

Final examination at the close of the fourth year upon the above-named subjects.

ORDER OF LECTURES, DAILY.—FIRST YEAR, 1897-'98.
BEFORE CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.		CHEMISTRY. Lower Room.
9-10		MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.		MATERIA MEDICA AND THERAPEUTICS. Lower Room.
10-11	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory.	PRACTICAL ANAT- OMY.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
1-2	PRACTICAL ANAT- OMY.				PRACTICAL ANAT- OMY.	PHARMACOLOGY.

AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		CHEMISTRY. Lower Room.	PHARMACOLOGY.			CHEMISTRY. Lower Room.
9-10		MATERIA MEDICA Lower Room.	ANATOMY. Upper Room.		ANATOMY. Upper Room.	MATERIA MEDICA Lower Room.
10-11	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	PRACTICAL ANAT- OMY.	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
1-2	PHYSIOLOGY. Lower Room.			PRACTICAL ANAT- OMY.		

ORDER OF LECTURES, DAILY.—SECOND YEAR, 1897-'98.
BEFORE CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5-6	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PRACTICAL ANAT. ONLY	CHEMISTRY. Lower Room.	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.
6-7	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	ANATOMY. Upper Room.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.	HISTOLOGY. Laboratory.	MATERIA MEDICA AND THERAPEUTICS. Lower Room.
7-8	PHYSIOLOGY. Upper Room.	CHEMISTRY. Laboratory.	PRACTICAL ANAT. ONLY	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.	ANATOMY. Upper Room.
8-9		CHEMISTRY. Laboratory.		CHEMISTRY. Laboratory.		PHARMACOLOGY.

AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5-6	HISTOLOGY. Laboratory.	CHEMISTRY. Lower Room.	PHARMACOLOGY.	HISTOLOGY. Laboratory.	PRACTICAL ANAT. ONLY	CHEMISTRY. Lower Room.
6-7	HISTOLOGY. Laboratory.	MATERIA MEDICA. Lower Room.	ANATOMY. Upper Room.	HISTOLOGY. Laboratory.	ANATOMY. Upper Room.	MATERIA MEDICA. Lower Room.
7-8	ANATOMY. Upper Room.	CHEMISTRY. Laboratory.	PHYSIOLOGY. Lower Room.		PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.
8-9	PHYSIOLOGY. Lower Room.	CHEMISTRY. Laboratory.				CHEMISTRY. Laboratory.

ORDER OF LECTURES, DAILY.—THIRD YEAR, 1897-'98.
BEFORE CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	SCIENCE Upper Room		SCIENCE Upper Room		SCIENCE Upper Room	
9-10	OBSTETRICS Upper Room	OCT. 2 to Dec. 1 OPHTHALMOLOGY Upper Room	OBSTETRICS Lower Room		OBSTETRICS Upper Room	OCT. 2 to Dec. 1 OBSTETRICS Upper Room
10-11	BACTERIOLOGY Laboratory	PRACTICE Lower Room	BACTERIOLOGY Laboratory	PRACTICE Lower Room	BACTERIOLOGY Laboratory	
11-12	BACTERIOLOGY Laboratory		BACTERIOLOGY Laboratory	MINOR SURGERY AND PRACTICE Upper Room	BACTERIOLOGY Laboratory	

AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	SCIENCE Upper Room				SCIENCE Upper Room	
9-10	OBSTETRICS Upper Room				OBSTETRICS Lower Room	
10-11	PRACTICE Lower Room	PRACTICE Lower Room	PATHOLOGY Laboratory	PRACTICE Lower Room	PATHOLOGY Laboratory	PRACTICE Lower Room
11-12	PRACTICE Lower Room	PRACTICE Lower Room	PATHOLOGY Laboratory	PATHOLOGY Laboratory	PATHOLOGY Laboratory	PATHOLOGY Laboratory

ORDER OF LECTURES, DAILY.—FOURTH YEAR, 1897-'98.
BEFORE CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5:30	Surgey. Upper Room.		Surgey. Upper Room.		Surgey. Upper Room.	
6:30	Obstetrics. Upper Room.		Obstetrics. Lower Room.	Oct. 1 to Dec. 31. MILITARY JURISPRUDENCE. Upper Room.	Obstetrics. Upper Room.	
7:30	Oct. 4 to Dec. 31. PEDIATRICS. Lower Room.	Practical. Lower Room.		Practical. Lower Room.		
8:30	Nov. 1 to Dec. 31. OTOLOGY AND LAR. ANATOMY. Lower Room.					

AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
5:30	Surgey. Upper Room.				Surgey. Upper Room.	
6:30	Obstetrics. Upper Room.	Jan. 4 to March 31. MUSICAL DISEASES. Upper Room.	Jan. 4 to March 31. HYGIENE. Lower Room.	Jan. 4 to March 31. GYNÆCOLOGY. Upper Room.	Obstetrics. Lower Room.	Jan. 4 to March 31. SURVEY OF THE ANATOMY. Upper Room.
7:30	Jan. 4 to March 31. OTOLOGY AND LAR. ANATOMY. Lower Room.	Practical. Lower Room.		Practical. Lower Room.		Practical. Lower Room.
8:30						Jan. 4 to March 31. Obstetrics. SURGEY. Upper Room.

Clinical Instruction.

Surgical Clinics, by Professor THOMPSON, at Garfield Hospital, on Sunday at 11 a. m., and at the Children's Hospital at 2 p. m., during the entire course, and by Drs. VAN RENSSELAER and CARR at the Garfield and Emergency Hospitals.

Medical Clinics, by Professor JOHNSTON, from October to January; by Professor ACKER, at the Garfield Hospital, on Tuesday at 4 p. m., and by Professor G. WYTHE COOK, at the Garfield Hospital.

Clinics on the special branches will be given by Professor ACKER, at the Children's Hospital, from January to April; by Professor H. L. E. JOHNSON, at the Emergency Hospital, on Gynecology; by Professor J. W. BOYCE, at Providence, on Gynecology; by Professor RICHARDSON, on Laryngology and Otology, at the Lutheran Eye and Ear Infirmary; by Professor BUTLER, on the Diseases of the Eye, at the Lutheran Eye and Ear Infirmary, and by Professor TOMPKINS on the Diseases of the Nervous System, Dr. SHANES in Medicine, Dr. CARMICHAEL in Dermatology, and Dr. T. R. STONE in Genito-urinary Diseases, at the Emergency Hospital.

When the student presents himself for graduation he must furnish a certificate from Drs. THOMPSON or VAN RENSSELAER that he has attended two full courses of instruction in clinical surgery, and from Drs. JOHNSTON, ACKER, or COOK that he has attended two full courses of clinical medicine.

III. Students of other institutions who have attended one course of lectures in any regular medical school will be placed upon the same footing with those who have attended one course in this College, and those who have attended two or three courses of lectures in any other regular college or colleges will rank with those who have attended two or three courses in this Institution, and the same privileges as regards examination will be extended to them—that is to say, they will be admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

IV. Candidates for graduation must have studied medicine four years. They must be of good moral character and at least twenty-one years of age.

V. The candidate must have dissected at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended two courses of clinical instruction.

VI. One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination will be both written and oral. The examination for the degree will be held at the end of the session in April.

The diploma is granted only at the Annual Commencement in May.

VII. Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

VIII. Students who fail to pass the examinations in the spring will be allowed a reexamination in the following fall.

Fees, Regulations, etc.

For the session of 1897-1898 and thereafter the fee for each year for new matriculants will be \$111. This covers all expenses, laboratories and dissection included. Of this amount at least \$25 must be paid upon entrance and before beginning dissection.

A deposit will be required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For *special courses* the following fees will be charged:

Matriculation Fee, payable only once,	\$5 00
Single Tickets,	25 00
Practical Anatomy, by the Demonstrator	10 00
Laboratory tickets, each, per year,	10 00

Payment of the fees is required in all cases, and tickets must be taken out at the commencement of the session, *unless special arrangement be made with the Secretary-Treasurer to suit the convenience of the student.*

Fees are to be paid to the Secretary-Treasurer.

By virtue of a liberal endowment from the late Mr. W. W. COLEMAN, this College is enabled to offer *scholarships*.

Two of these Scholarships are open to the graduates of the several High Schools of the District of Columbia for competitive examination. These two Scholarships will be awarded to the two students whose averages are highest.

Two of the Scholarships are open, for competitive examination, to graduates of any reputable High School or College (preference being given to those in the District of Columbia), who shall give satisfactory written evidence of *pecuniary ability* and certificates of good moral

character and industry. These two Scholarships will be awarded to the two graduates whose averages are highest.

The remaining two of those Scholarships are open, for competitive examination, to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of *pecuniary inability* and certificates of good moral character and industry. These two Scholarships will be awarded to the two students whose averages are highest.

In addition to the above-mentioned six Concoran Scholarships, the Faculty offer two Medical Missionary Scholarships, which shall be given to those applicants judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming Medical Missionaries.

Applications should be addressed to the Dean and sent in not later than the first of September.

Graduates of other accredited Medical Colleges, after five years, are required to matriculate only. Prior to the expiration of five years the fee for a general ticket is \$75.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States of America.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

The College Building is situated opposite a Government reservation, at No. 1325 H Street, N. W., and is within half a square of three lines of street cars going to every part of the city.

Students desiring further information are requested to address

Dr. D. K. SHUTE, *Dean*,
1120 New York Avenue, N. W., Washington, D. C.

Or—

Dr. E. A. DE SCHWEINITZ,

Secretary-Treasurer, 1325 H Street, N. W.

Prizes.

At the end of the term a General Examination Prize of *fifty dollars* will be awarded. It will be given to the candidate for graduation who shall pass the best general examination.

The Faculty will award two additional prizes—one for proficiency in *Clinical Medicine*, and one for proficiency in *Clinical Surgery*.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology. Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology. Professor Sterling Rutlin gives one for the best examination in Medical Jurisprudence; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology, and Professor E. L. Tompkins gives one for the best examination in Nervous Diseases.

At the Commencement, in May, 1896, the General Examination Prize was awarded to Robert L. Lynch, of Indiana; first honorable mention was made of Albert L. Lawrence, of Ohio, second honorable mention of Edwin P. Wolfe, of Iowa, and third honorable mention of Hanson T. A. Lemon, of the District of Columbia.

The Faculty Prize in Clinical Medicine was awarded to Albert L. Lawrence, of Ohio.

The Faculty Prize in Clinical Surgery was awarded to Hanson T. A. Lemon, of the District of Columbia.

The H. C. Yarrow Prize in Dermatology, the H. L. E. Johnson Prize in Clinical Gynecology, and the Sterling Rutlin Prize in Medical Jurisprudence were awarded to Robert L. Lynch, of Indiana.

The C. W. Richardson Prize in Laryngology and Otology was awarded to Marion Dorset, of Tennessee.

The E. L. Tompkins Prize in Nervous Diseases was awarded to Albert L. Lawrence, of Ohio.

Graduates in Medicine, 1896.

Name.	State.
Frank A. Barbour	Mississippi.
Marion Dorset	Tennessee.
Jas. M. Fairly	Mississippi.
W. A. Frankland	Virginia.
O. J. Gwynn	Colorado.
J. R. Hamilton	Texas.
A. B. Hooe	Virginia.
Montgomery Hunter	Virginia.
A. L. Lawrence	Ohio.
Hanson T. A. Lemon	District of Columbia.
R. L. Lynch	Indiana.
Jas. Mellhenny	District of Columbia.
E. W. Patterson	Ohio.
H. T. Penny, M. D.	Montana.
Delos N. Reeve	Iowa.
Henry M. Seltzer	Pennsylvania.
W. S. Scott	Maryland.
Edwin P. Wolfe	Iowa.
T. A. Whittington	Nebraska.

STUDENTS IN MEDICINE, 1896-'97.

First-year Students.

Name.	State.
B. F. Atherson, 1641 Tenth Street, N. W.,	Georgia.
G. S. Baker, Mt. Vernon Flats,	South Carolina.
G. S. Barnes, 1517 I Street, N. W.,	South Carolina.
W. H. Beard, 1305 N Street, N. W.,	District of Columbia.
R. S. Beale, 7 Cook Place, N. W.,	District of Columbia.
C. M. Beall, New Jersey Ave. and C Street, S. E.,	District of Columbia.
D. F. Birtwell, 412 A Street, S. E.,	Pennsylvania.
H. S. Brown, 230 North Capitol Street,	District of Columbia.
O. G. Brown, 34 B Street, N. E.,	District of Columbia.
F. J. W. Brown, 928 New York Avenue, N. W.,	Pennsylvania.
T. S. Carswell, 915 I Street, N. W.,	Georgia.

Name	State
E. P. Copeland, 507 C Street, S. E.	District of Columbia.
W. S. Clarke, 1114 Eleventh Street, N. W.	New York.
J. F. Crawford, 720 Twenty-first street, N. W.	Kentucky
F. M. Chamberlain, 1224 I Street, N. W.	Indiana
A. J. Cummings, Chevy Chase.	Maryland.
C. W. Cuthbertson, 731 Fifth Street, N. W.	North Carolina.
E. B. Dixon, 1421 Twenty-ninth Street, N. W.	Maryland.
W. E. Dinelt, Alexandria.	Virginia
R. A. Ford, 2224 Thirteenth Street, N. W.	District of Columbia.
H. S. Greene, 320 Q Street, N. W.	Vermont
W. E. Griffith, 310 A Street, N. E.	Pennsylvania.
John D. Herr, 900 K Street, N. W.	Pennsylvania
A. M. Hoadley, 345 Pennsylvania Avenue, N. W.	Virginia.
E. R. Huntington, 122 Sixth Street, S. E.	New York
Charles Hughes, 913 I Street, N. W.	Pennsylvania.
D. C. Hutton, 107 Second Street, S. E.	North Carolina.
T. T. Johnson, 1307 F Street, N. E.	Michigan.
E. H. Johnson, 333 C Street, N. W.	District of Columbia.
E. E. Jones, 1940 Ninth Street, N. W.	District of Columbia.
Randolph Kleiner, Hyattsville.	Maryland
W. V. Leach, 812 S Street, N. W.	Maryland.
J. A. Leonhardt, 1229 E Street, N. W.	Maryland
A. H. Reed Lusby, 920 South Carolina Ave., S. E.	District of Columbia.
H. C. Macatee, 3 Thomas Circle, N. W.	Virginia.
R. B. Main, 2009 Massachusetts Avenue, N. W.	Massachusetts.
S. M. Mason, 1706 F Street, N. W.	Virginia.
H. M. Manning, 637 Maryland Avenue, N. E.	District of Columbia.
J. E. Mitchell, 805 D Street, S. W.	Maryland.
A. H. Murdoch, 1210 S Street, N. W.	Nebraska.
J. F. Mullally, 2153 D Street, N. W.	Rhode Island.
Alex. T. Nelson, Hotel Johnson.	Virginia.
J. J. Ohear, 1309 Twentieth Street, N. W.	South Carolina.
M. D. Pollard, Alexandria.	Virginia.
E. C. Prentiss, 1218 Ninth Street, N. W.	District of Columbia.
I. L. Riggles, 445 O Street, N. W.	District of Columbia.
D. H. Reed, 1331 Eleventh Street, N. W.	North Carolina.
George M. Robinson, 1313 K Street, N. W.	Pennsylvania.
R. L. Russell, 10 Seventh Street, N. E.	District of Columbia.
C. T. Smith, 8 Grand Place, N. W.	Virginia

Name	State
M. E. Stacks, 1515 Vermont Avenue, N. W.	Connecticut.
A. H. Steele, 1609 New Jersey Avenue, N. W.	District of Columbia.
J. W. Stewart, 915 I Street, N. W.	District of Columbia.
J. A. Tall, 116 D Street, N. W.	Pennsylvania.
B. T. Tiefenthaler, 516 Tenth Street, N. W.	Ohio.
E. S. Tucker, 431 Tenth Street, N. W.	Pennsylvania.
A. C. Walker, 202 Eighth Street, S. E.	Virginia.
W. R. Webb, 608 E Street, N. W.	Tennessee.
A. J. Westlake, 917 New Jersey Avenue, N. W.	Maryland.
J. M. Williams, 910 King Street, Alexandria.	Virginia.

Second-year Students.

Name	State
C. H. Allen, 94 New York Avenue, N. W.	Tennessee.
W. F. Andrews, 1213 K Street, N. W.	Michigan.
S. S. Atkins, 930 First Street, N. W.	North Carolina.
N. I. Baron, 418 Massachusetts Avenue, N. E.	Alabama.
S. A. Blackman, Kensington, Maryland.	Kentucky.
Rich. Breaden, 222 Ninth Street, N. W.	Wisconsin.
G. M. Bradshaw, War Department.	Pennsylvania.
A. D. Butz, Washington Asylum Hospital.	Pennsylvania.
A. R. Butler, Civil Service Commission.	Oregon.
J. S. Cammon, 924 Fourteenth Street, N. W.	England.
G. L. Clayton, 436 H Street, N. W.	Louisiana.
J. W. Clark, 908 Fifteenth Street, N. W.	District of Columbia.
P. M. Cox, 1300 Pennsylvania Avenue, N. W.	Maryland.
W. F. Dailey, 1701 Q Street, N. W.	Mississippi.
E. F. Fadeley, 2023 N Street, N. W.	Virginia.
R. Gibson, Alexandria.	Virginia.
F. E. Gibson, 927 I Street, N. W.	District of Columbia.
P. B. Graham, 3066 Q Street, N. W.	Maryland.
R. B. Grubbs, 1460 Concoran Street, N. W.	Alabama.
Z. P. Guinon, 927 O Street, N. W.	District of Columbia.
R. A. Hales, 928 New York Avenue, N. W.	North Carolina.
F. D. Hester, 1419 Q Street, N. W.	Virginia.
F. C. Heath, 720 Tenth Street, N. W.	Maryland.
Sothoron Key, 1723 Ninth Street, N. W.	Maryland.
N. S. Herbert, 824 D Street, S. E.	District of Columbia.

Name	State
H. K. Hodges, 38 I Street, N. W.,	New York.
Roy Letherman, 1415 Q Street, N. W.,	District of Columbia.
A. T. Leith, 513 Thirteenth Street, N. W.,	Wisconsin.
G. C. F. Lindenkohl, 19 Fourth Street, S. E.,	District of Columbia.
O. J. Mason, 1203 Thirteenth Street, N. W.,	New York.
H. A. May, 829 Ninth Street, N. W.,	New York.
B. E. Marshall, 1305 R Street, N. W.,	Vermont.
W. P. McKee, 809 Twenty-second Street, N. W.,	District of Columbia.
R. A. W. McKelden, 1242 Maryland Avenue, N. E.,	Maryland.
S. J. McMichel, 2110 K Street, N. W.,	South Carolina.
R. L. Morgan, 1912 Sunderland Place, N. W.,	Pennsylvania.
W. W. Medley, 145 E Street, S. W.,	Virginia.
W. E. Ingrave, Washington Barracks,	Tennessee.
H. N. North, St. Elizabeth,	District of Columbia.
H. E. Porter, 3035 O Street, N. W.,	New York.
Joseph Perkins, 1213 New York Avenue, N. W.,	Illinois.
D. W. Prentiss, 1248 Ninth Street, N. W.,	District of Columbia.
H. M. Price, 429 Seventh Street, S. W.,	District of Columbia.
A. A. Protzman, 639 Elliott Street, N. W.,	West Virginia.
C. A. Ragan, 246 Eighth Street, N. E.,	Tennessee.
P. C. Riley, 2010 Portner Place, N. W.,	Maryland.
F. H. Reichelderfer, 1205 Q Street, N. W.,	Ohio.
F. D. Slattery, 252 Eleventh Street, S. E.,	District of Columbia.
M. J. Simmons, 155 E Street, S. E.,	Maryland.
C. J. Sheridan, 102 Twenty-second Street, N. W.,	New York.
W. T. Smith, 1404 I Street, N. W.,	Georgia.
J. W. Stearnes, 1756 Madison Street, N. W.,	District of Columbia.
H. H. Stromberger, 118 Seventh Street, S. E.,	District of Columbia.
A. A. Taylor, 915 I Street, N. W.,	Ohio.
J. C. Tappan, 507 B Street, S. E.,	District of Columbia.
W. R. Ward, 1756 Pennsylvania Avenue, N. W.,	District of Columbia.
W. C. Williams, 4th and N Streets, N. W.,	Virginia.
G. W. Wimberly, 1412 Thirtieth Street, N. W.,	Georgia.

Third Year Students.

Name	State.
G. K. Baier, 1002 Pennsylvania Avenue, N. W.,	District of Columbia.
B. E. Blye, Jr., 115 Seventh Street, N. E.,	New York.
E. Cook, 712 Fourth Street, S. E.,	District of Columbia.

Name	State
F. P. Chapman, Civil Service Commission.	Texas.
C. A. Clemens, 1443 Coreoran Street, N. W.,	New York.
A. E. Cook, 1215 I Street, N. W.,	Virginia.
Thomas Dowling, Jr., 614 E Street, N. W.,	District of Columbia.
W. S. Fisher, 1212 Ninth Street, N. W.,	Virginia.
N. C. Gaynor, Post Office Department.	Kentucky.
N. H. Gallinger, Elsmere.	New Hampshire.
R. C. Gotta, 818 New Jersey Avenue, N. W.,	Pennsylvania.
T. A. Groover, 1404 I Street, N. W.,	Georgia.
W. W. Grier, 1223 K Street, N. W.,	District of Columbia.
H. H. Graham, 305 H Street, N. W.,	Ohio.
P. L. Gunckel, 231 Tenth Street, N. E.,	Kansas.
C. N. Howard, 928 T Street, N. W.,	Pennsylvania.
A. B. Herald, 1224 I Street, N. W.,	Armenia.
P. W. Huntington, 1601 Thirtieth Street, N. W.,	Connecticut.
C. S. Keyser, 2019 Massachusetts Avenue, N. W.,	District of Columbia.
J. A. Koeb, Garfield Hospital,	Illinois.
J. St. J. Lockwood, First and B Streets, S. W.,	District of Columbia.
P. E. McDonell, Post Office Department.	Georgia.
M. J. McIntee, 1233 New Jersey Avenue, N. W.,	Massachusetts.
F. H. Morhart, 228 Morgan Street, N. W.,	Ohio.
C. O. Perry, 2020 G Street, N. W.,	Virginia.
W. Rives, Box 194, City.	Maryland.
A. A. Rittenour, Alexandria.	Virginia.
F. H. Schultz, D. D. S., 917 Sixth Street, N. W.,	Ohio.
G. H. Schwinn, Children's Hospital.	Connecticut.
H. W. Smith, 1515 Vermont Avenue, N. W.,	Pennsylvania.
T. B. Snoddy, 1217 N Street, N. W.,	Tennessee.
G. L. Sorrell, 620 F Street, N. W.,	Virginia.
W. E. Sims, 628 Seventh Street, N. E.,	South Carolina.
H. A. Selhausen, 510 D Street, S. E.,	District of Columbia.
J. T. Sykes, 610 Eleventh Street, N. W.,	District of Columbia.
J. M. Tracey, 465 I Street, N. W.,	New York.
C. S. White, 1105 E Street, S. W.,	District of Columbia.
G. Worstell, 4364 H Street, N. W.,	Texas.
L. J. Wyeth, 2022 R Street, N. W.,	Illinois.
R. F. Yarbrough, 1300 Pennsylvania Ave., N. W.,	Texas.

Fourth-year Students.

Name	State
E. M. Chapman, 11 I Street, N. W.,	Massachusetts.
J. Y. Curry, 1111 H Street, N. W.,	Georgia.
G. S. Driver, 1342 N Street, N. W.,	District of Columbia.
H. A. Dunn, Washington Asylum Hospital,	District of Columbia.
H. R. Garland, Coast Survey,	Vermont.
E. L. Goodall, 713 Fourteenth Street, N. W.,	Vermont.
J. H. Ford, B. S., A. M., Garfield Hospital,	District of Columbia.
F. McG. Hartsock, 1014 Eighth Street, N. W.,	District of Columbia.
R. H. Hardman, War Department,	Indiana.
P. C. Hutton, 487 Second Street, S. E.,	North Carolina.
C. H. James, 109 C Street, S. E.,	District of Columbia.
C. R. Johnson, 1449 N Street, N. W.,	District of Columbia.
G. T. Jueneman, 310 Sixth Street, N. W.,	District of Columbia.
J. E. Jones, 1213 O Street, N. W.,	Ohio.
E. L. Le Merle, D. D. C., 1507 Eighth Street, N. W.,	District of Columbia.
Chas. McCulloch, 713 Fourteenth Street, N. W.,	Virginia.
N. P. Mills, 1015 I Street, N. W.,	Maryland.
N. W. Matthews, 1751 Corcoran Street, N. W.,	Louisiana.
N. J. Olds, 819 M Street, N. W.,	Michigan.
C. Wesley Orr, 610 A Street, S. E.,	Louisiana.
R. D. Pope, 10 Grant Place, N. W.,	Illinois.
W. Pulsifer, 1412 Fifteenth Street, N. W.,	Maine.
E. C. Rice, 418 Twelfth Street, N. W.,	Massachusetts.
D. B. Street, 1102 Ninth Street, N. W.,	District of Columbia.
G. H. Thomas, M. D., 1014 Massachusetts Ave., N. W.,	West Virginia.
D. A. Welles, 2 I Street, N. W.,	New Hampshire.
W. E. Whitson, 1527 Meridian Avenue, N. W.,	District of Columbia.
R. M. Werdin, 1222 I Street, N. W.,	District of Columbia.

Total..... 186

THE DENTAL SCHOOL.

The Faculty.

THE REV. BENAIHAH L. WHITMAN, D. D.,
President.

J. HALL LEWIS, D. D. S.,
Professor of Dental Prosthetics and Dean of the Faculty.

HENRY C. THOMPSON, D. D. S.,
Professor of Operative Dentistry and President of the Faculty.

D. WEBSTER PRENTISS, M. D.,
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, M. D.,
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,
Professor of Chemistry.

WILLIAM P. CARR, M. D.,
Professor of Physiology.

JONATHAN R. HAGAN, D. D. S.,
Professor of Oral Surgery.

STERLING RUFFIN, M. D.,
Demonstrator of Anatomy.

VERANUS A. MOORE, M. D.,
Professor of Normal Histology.

JONATHAN R. HAGAN, D. D. S.,
WILLIAM H. TRAIL,

Demonstrators in Charge of Infirmary.

WILLIAM L. CLARK, D. D. S.,
WALTER A. LOW, D. D. S.,
CHARLES R. RICE, D. D. S.,
R. E. L. HACKNEY, D. D. S.,
Assistant Demonstrators.

J. HALL LEWIS, D. D. S., DEAN,
1023 Vermont Avenue N. W. and 1325 H Street N. W., Washington, D. C.

EMIL A. DE SCHWEINITZ, M. D.,
Secretary-Treasurer, 1325 H Street N. W.

DENTAL DEPARTMENT.

Annual Announcement of the Session of 1897-'98.

The Regular Course of Lectures begins on September 29, and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. Hall Lewis, on the above date, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The Faculty of the Dental Department of this University announce that in order to become eligible for graduation the student must attend three full courses of seven months each, held in different years, with such exceptions as are hereinafter stated.

The subjects of the several courses are arranged as follows:

FIRST YEAR.—Anatomy, Physiology, Chemistry and Materia Medica, together with Practical Anatomy, Histology, Bacteriology, and such Infirmary work as is suitable for first-year students.

SECOND YEAR.—The subjects of the first year are continued, and to these are added Operative Dentistry and Prosthetic Dentistry, with more advanced Infirmary work.

THIRD YEAR.—This year is devoted *exclusively* to Operative and Prosthetic Dentistry and Oral Surgery. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located College building gives ample opportunities.

The operating room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the Infirmary, which is under the immediate supervision of Professor LEWIS. Dr. HAGAN, the Demonstrator in charge, is in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of his many years of experience in Dental Practice.

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of *twenty-seven months' actual practice* in the Infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.**Prosthetic Dentistry and Metallurgy.**

PROFESSOR LEWIS.

In this Department the principles involved in the construction of artificial substitutes will be exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum will be thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., will be carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist will receive special attention.

Professor Lewis will endeavor to make his instruction thoroughly practical, and to prepare the student for the actual every-day practice of Prosthetic Dentistry.

Operative Dentistry, Dental Anatomy, and Pathology.

PROFESSOR THOMPSON.

This course embraces Lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and will be illustrated as their importance demands.

The methods of treating, filling, and extracting teeth will not only receive attention in the lecture-room, but be demonstrated clinically by gentlemen whose reputations are fully established as most proficient operators. Dental Pathology and Therapeutics will receive extended consideration from this Chair.

Chemistry.

PROFESSOR DE SCHWEINITZ.

The instruction in this Department embraces -

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry will be studied, special attention being paid to those organic compounds that are of practical use.

Laboratory instruction will be given in the determination of acids and bases, analyses of alloys, etc.

Physiology.

PROFESSOR CARR.

Every effort will be made to teach this subject in a scientific manner. The ground will be fully covered by a two years' course of Lectures, and these Lectures so illustrated by modern diagrams, models, and experiments as to make them perfectly clear in every detail.

Especially pains will be taken to emphasize those truths that have a known practical value.

Materia Medica and Therapeutics.

PROFESSOR PRENTISS.

In the course of instruction pertaining to this Chair especial prominence will be given to the physiological action of medicines and their therapeutic uses.

It will be the endeavor of Professor Prentiss to make his instruction as practical as possible. The Lectures will be supplemented by working prescriptions and blackboard illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

A Pharmaceutical Laboratory is established in connection with the Chair, in which the students are taught the methods of making the different preparations, such as infusions, decoctions, tinctures, syrups, and the like.

They are also taught the compounding of prescriptions, the proper excipients for pills, incompatibles (especially such as produce dangerous compounds), and are expected to actually compound working formulas.

Anatomy.

PROFESSOR SHUTE.

This course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sprojecticon will also be employed constantly to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy will prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his Assistants give their personal attention to the students in the dissecting-room.

Practical Anatomy.

The dissecting-room of this College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge to the student. The room is open both during the day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present *at stated hours* to give his personal attention to the students and properly instruct his classes in their dissections.

Oral Surgery.

PROFESSOR HAGAN.

A full course of Lectures upon the above subject will be given by Professor HAGAN, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to more thoroughly teach this interesting branch of General Dentistry.

Histology.

The Histological Course embraces a thorough study of the general use of the microscope and a special examination of the origin and formation of the teeth, the minute parts of these organs, and the surrounding tissues.

Bacteriology.

This course will embrace a comprehensive study of the bacteria of the mouth, which have relation to the diseases of that region.

Requirements for Matriculation and Graduation.

Matriculants will be required to show, either by examination or by the exhibit of a diploma or a certificate from some reputable institution of learning, that they have received a good English education, according to the requirements of the National Association of Dental Faculties.

Dr. O. A. M. McKIMMIE, of the Columbian University, will conduct the entrance examination, when such is required, at 1333 N street N. W.

Candidates for Graduation must have attended three full Courses of Lectures, each of SEVEN months' duration, and three courses of Clinical instruction in this institution, during the regular winter term and in separate years, with the exceptions noted below.

The following is considered as an equivalent to one course in this College:

A diploma from a recognized medical school, undergraduate tickets of the same, or satisfactory evidence of having passed first-year examination in some other reputable dental school.

The following is considered as the equivalent of two courses in this College:

A diploma from a reputable dental college or evidence of having passed the second-year examination in the same.

Before becoming eligible for graduation, all medical graduates and students must take two full courses upon Operative and Prosthetic Dentistry, and conform to the usual Infirmary requirements.

Graduates from schools of pharmacy may enter the Junior Class after passing a satisfactory examination in the first-year studies.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be re-examined in the fall.

Students can go up for examination only in the spring and fall and upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student can present himself for examination.

Students must enter before or ten to fifteen days after the opening lecture for the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of \$25, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must *perform operations upon the natural capitis in the Infirmary*, and present a well-constructed specimen of Dental mechanism *made by himself in the Dental Laboratory of the University*, which shall afterward be deposited in the College Museum.

In addition to the above requirements, the moral character and habits of the candidate, his industry and diligent attendance, will be taken into consideration. Notable negligence, immorality, and habitual absence from the lectures will, it is distinctly understood, preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. The reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

Faculty Prize.

A prize will be given by the Faculty to the graduate passing the best examination in *all* branches and having the best Infirmary record. At the last commencement the prize was awarded to Edward F. Concklin, of Rhode Island.

Fees, etc.

Annual tuition fee, \$100 00

The above includes all the Tuition expenses. There are *no extras* whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutical, and Chemical Laboratories and Dental Infirmary are all furnished free of charge to the students.

Each student must furnish his own Books and Dental Instruments.

The student is required to make a payment upon registering, and twenty-five dollars must be paid before he can avail himself of Laboratory and Infirmary instruction.

All fees should be paid to the Secretary Treasurer, Dr. DE SCHWEINITZ, at 1325 H street.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second Dental Course, provided they give written notice to the Dean of their intention so to do one month before the spring examinations, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities of the Union.

Students requiring further information are requested to communicate with the Dean of the Faculty.

J. HALL LEWIS, DEAN,

1023 Vermont Avenue, N. W., Washington, D. C.

The Dean can be seen personally at 1023 Vermont Avenue, on any week day, from 3.30 to 4.30 p. m., and also at the College Building, 1325 H street, N. W., on Monday, Wednesday, and Friday of each week from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

Libraries, Army Medical Museum, etc.

The location of the University at the seat of the National Capital affords several striking advantages to the dental student. He has free access to the Libraries of Congress, of the Army Medical Museum, of the Smithsonian Institution, and of the Patent Office—all of which contain rare and costly works in every department of science and literature.

The Congressional Library contains copies of all the important dental works ever published, and the student has free access to these, for study or reference, on any week day from 9 to 3 o'clock.

The Army Medical Museum, situated on B street, corner Seventh street, S. W., is also open for daily inspection, with its unrivaled collection.

tion of pathological specimens illustrating the result of disease in every form. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs.

Apart from these considerations, students from a distance have the opportunity of spending the winter profitably at the seat of the National Government during the session of Congress. The College lectures beginning at 5.30 in the evening, ample time is afforded during the term for visiting the public buildings, works of art, and other places of interest to a stranger. Prominent among these may be mentioned the new National Museum, established in connection with the Smithsonian Institution. Here may be seen fully classified collections illustrating the arts and industries of the country, and, of special interest to the medical and dental student, there is found in this Museum the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Of great interest, also, are the Government Botanical Gardens and the Grounds of the Agricultural Department, where the student of Botany may find a rare collection of medical plants, from which are derived many of the preparations of the *Materia Medica*.

At the United States Patent Office models of every conceivable form of dental instruments may be daily inspected, thus affording to the student an invaluable opportunity for studying the mechanical contrivances used in dental practice that is not to be obtained in any other city.

University Lectures.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to such lectures, other than Law Lectures, given in the University Hall, by applying to the Dean.

Students of Dentistry.

Students will be classified and the absences marked in the Special Dental Catalogue.

Name	State
William F. Ankeney, 416 K Street, N. W.	Maryland.
Samuel E. Aler, 611 M Street, N. W.	West Virginia.
Julius J. Augenstein, 712 Fifth Street, N. W.	District of Columbia.
Edwin H. Bogley, 1507 Twenty-eighth St., N. W.	District of Columbia.
Arthur Bennett, 1111 H Street, N. W.	Georgia.
Fenton Bradford.	Virginia.
Damon A. Binkert, 416 K Street, N. W.	Illinois.
Paris E. Prengle, 450 P Street, N. W.	Maryland.
George E. Boynton, 913 I Street, N. W.	New York.
Thomas B. Cochran, Alexandria.	Virginia.
Charles W. Cuthbertson, 731 Fifth Street, N. W.	North Carolina.
Emmett M. Carter, 937 Virginia Avenue, S. W.	District of Columbia.
William Creamer, 814 G Street, S. E.	District of Columbia.
Eppa H. Coumbe, 1312 Ninth Street, N. W.	Virginia.
J. C. Dunne, 1309 H Street, N. W.	New York.
James D. Eggleston, M. D., 2500 Fourteenth St., N. W.	New Jersey.
William C. Fisher, 3250 O Street, N. W.	District of Columbia.
Charles H. Fisher, 412 Sixth Street, N. W.	New York.
Thomas W. Fred, 728 Eighth Street, N. W.	Virginia.
J. Allen Gorman, 223 Ninth Street, N. E.	North Carolina.
Hopkins Gibson, 906 I Street, N. W.	West Virginia.
Thomas J. Gates, 114 Sixth Street, S. E.	Maryland.
R. B. Grubbs, Agricultural Department.	Alabama.
George E. Hurley, 923 H Street, N. W.	Massachusetts.
James G. Haskell, 906 I Street, N. W.	Kentucky.
W. B. Hoofnagle, 821 C Street, S. E.	Maryland.
Fessenden F. Hicks, 724 Twelfth Street, N. W.	Maryland.
H. W. Johnson, 2011 S Street, N. W.	District of Columbia.
Johannes A. Kauschke, 2106 I Street, N. W.	Germany.
William M. Kemball, 213 L Street, N. W.	District of Columbia.
Charles B. Keefer, 316 Second Street, S. E.	District of Columbia.
William H. Liggin, 508 Ninth Street, N. W.	Georgia.
Thomas B. Lear, 530 Ninth Street, S. E.	District of Columbia.

Name	State
James P. Moore, 1427 S Street, N. W.,	District of Columbia.
John R. McChesney, Chillum Post Office,	Maryland.
William E. Naff, 32 Grant Street, N. W.,	North Carolina.
H. E. Perlie, 924 Fourteenth Street, N. W.,	Massachusetts.
Stephen D. Pool, 1133 Sixth Street, N. W.,	Louisiana.
William E. Puro, 1953 Third Street, N. W.,	Virginia.
William A. Rawson, 132 A Street, N. E.,	Michigan.
Thomas M. Rice, 418 A Street, S. E.,	Pennsylvania.
George Y. Stanford, 106 C Street, N. E.,	Utah.
Ernest E. Smith, 225 F Street, N. E.,	Virginia.
Christian C. Schneider, 1313 H Street, N. W.,	Connecticut.
George T. Sabourin, Geological Survey,	Louisiana.
E. C. Shade, 1232 Fourteenth Street, N. W.,	District of Columbia.
Pearce Thompson, Pension Office,	Kentucky.
A. Thomas Uiz, 212 Ninth Street, N. W.,	Maryland.
Orville Van Dusen, 115 A Street, S. E.,	Virginia.
Frank H. Waite, Second and E Streets, N. E.,	Maryland.
Howard A. Wiltberger, 1219 Kenyon Avenue, S. W.,	Pennsylvania.
J. Kendall Wallace, 613 Pennsylvania Avenue, S. E.,	Ohio.
Richard Washington, M. D., 828 Twelfth St., N. W.,	Virginia.
J. Edmond Whitson, 1527 Meridian Avenue, N. W.,	District of Columbia.
H. W. Whitaker, 613 Pennsylvania Avenue, S. E.,	Ohio.
W. G. Woodford, 1519 Eighth Street, N. W.,	District of Columbia.
Walter Watts, 402 M Street, N. W.,	Maryland.
Elmer F. Yount, 609 G Street, S. W.,	District of Columbia.
Howard Young, 1210 Ninth Street, N. W.,	Massachusetts.
James R. Yates, 1300 Pennsylvania Avenue, N. W.,	District of Columbia.

THE VETERINARY SCHOOL.

FACULTY OF MEDICINE AND SURGERY.

THE REV. BENJAMIN L. WHITMAN, D. D.,
President of the Columbian University.

D. E. SALMON, D. V. M., A. R. C. V. S. (Hon.), 1225 O Street, N. W.
Dean and Professor of Sanitary Medicine, Control and Eradication of Contagious Diseases and Inspection of Meats.

JOHN LOCKWOOD, D. V. S., 816 Sixth Street, N. W.
Professor of Theory and Practice of Medicine and Surgery.

WM. P. CARR, M. D., 1319 Thirteenth Street, N. W.
Professor of General Physiology.

E. A. DE SCHWEINITZ, A. M., PH. D., M. D., 1325 H Street, N. W.
Professor of Chemistry.

CHARLES F. DAWSON, M. D., D. V. S., 1362 B Street, S. W.
Professor of Special Physiology and General Pathology.

A. M. FARRINGTON, B. Sc., B. V. S., 1436 Chapin Street, N. W.
Professor of Obstetrics and Zootecnia.

D. E. BUCKINGHAM, V. M. D. (Univ. Pa.), 2118 Fourteenth St., N. W.
Professor of Materia Medica and Therapeutics.

JAMES CARROLL, M. D., Army Medical Museum.
Professor of Pathology and Bacteriology.

CECIL FRENCH, D. V. S., 714 Twelfth Street, N. W.
Professor of Canine Pathology.

ALBERT HASSALL, M. R. C. V. S.,
Professor of Parasitology.

Bowie, Maryland.

W. S. WASHBURN, M. D.,
Professor of Histology.

1221 M Street, N. W.

Professor of Anatomy.

CHARLES F. HADFIELD, D. V. S.,
Demonstrator of Anatomy.

210 M Street, N. W.

Special Lecturers.

CH. WARDELL STILES, A. M., Ph. D., M. S. (Hon.),
Lecturer on Zoology.

Woodmont Flats.

Assistant Demonstrators.

R. H. HADFIELD, D. V. S.,
B. E. HARPER, D. V. S.,
C. H. LOCKWOOD, D. V. S.,

210 M Street, N. W.

1628 New Jersey Avenue, N. W.

816 Sixth Street, N. W.

INTRODUCTION.

In presenting the Fifth Annual Announcement of the National Veterinary College we were able to state that a most important change in the organization and direction of the College had just been accomplished. The National Veterinary College will hereafter be known as the Veterinary School of the Columbian University. Our students will have all the advantages and facilities for studying histology, pathology, and chemistry which are found in the laboratories of the Medical Department of this University. The faculty has been greatly strengthened by uniting several courses of instruction with similar courses in the Medical Department and by securing the services of eminent veterinarians for other important chairs.

The founders of this College have always been of the opinion that there should be an institution in Washington for the study of veterinary science, with broader foundations and more complete facilities than could be provided in any private school. The union now accomplished with the Columbian University raises the National Veterinary College to the desired plane, and places within its grasp all the advantages possessed by the great endowed institutions of the country.

There could be no more appropriate location for a veterinary college than the capital of this great stock-growing country.

Washington city has for many years, and more particularly during the last decade, attracted the attention of intelligent people as a place with peculiar educational advantages, especially for the matriculants of the higher institutions of learning. Such institutions are already numerous, and the student can now find here instruction of the highest grade in any study.

The location of Washington is central and easily accessible from the North and the South, the East and the West. This city being the seat of the National Government, it is the gathering place not only for statesmen and jurists, but for the representatives of the intelligence and wealth of the country. It is also the favorite place of meeting for scientific associations and international congresses of all kinds. It is the one cosmopolitan city of the country where the student from any section is certain to feel at home and to find congenial friends.

The faculty is made up of well-known veterinarians and experienced lecturers, who are recognized as authorities on the subjects which they teach. The courses have been arranged to suit the requirements of modern veterinary education. The lectures on the control and eradication of contagious diseases and on meat inspection are designed to fit the students for the many responsible and lucrative positions which have been opened up to competent men by recent State and National legislation.

Among the positions under the Federal Government are those of Inspectors and Assistant Inspectors in the Bureau of Animal Industry. These positions are now filled only by persons who are *ad eundem graduatus*, and who can pass the examination of the Civil Service Commission.

There are at present a number of very desirable places as veterinarians in the army cavalry service, and efforts are being made to increase the number of these places and to give those occupying them the rank and pay of a commissioned officer.

The vast amount of capital invested in our animals in the various States, the widespread existence of tuberculosis and other diseases in them, and

the influence which such diseases have upon the health and wealth of the country, make it more and more necessary that there be a class of persons thoroughly educated for the duty of coping with these conditions. The intelligent veterinary graduate is the logical candidate for such positions, and we now have many State veterinarians, as well as veterinarians to the State boards of health, while in nearly all the agricultural colleges and in most of the municipal governments veterinarians occupy important positions.

College Calendar.

1896.

- Oct. 1, 2. Examination and admission of students.
- Oct. 3. Opening address at 8 p. m.
- Oct. 5. Lectures commence.
- Nov. 26-29. Thanksgiving vacation.
- Nov. 30. Lectures resumed.
- Dec. 23. Christmas vacation begins at close of lectures.

1897.

- Jan. 4. Lectures resumed.
- March 4. Inauguration day (Presidential).
- April 2. Lectures cease.
- April 5. Examinations begin.
- April 10. Commencement exercises at 8 p. m.

Session of 1897-'98.

- Oct. 1, 2. Examination and admission of students.
- Oct. 4. Lectures commence.

Matriculation.

For the purpose of ascertaining whether candidates can profitably pursue the courses, an examination in the ordinary branches of an English education will be held. Students who can present evidence of having acquired sufficient preliminary training will be admitted without examination.

Lecture Hours.

The didactic lectures will be given daily between the hours of 4.30 and 9.30 p. m.

The clinical lectures and demonstrations will be given from 9 a. m. to 12 m.

Three-year Graded Course.

Beginning with the present session, all students (except those who entered the College before January, 1896) who wish the diploma of this College will be required to study here three sessions or to have attended some other veterinary college at least two sessions before entering the senior class.

Several of the States have recently passed laws requiring those who wish to practice veterinary medicine and surgery in them to be graduates of schools which have a three year course of study, and there is a tendency toward such legislation in all the States. This College is thoroughly in sympathy with any movement looking to the improvement of veterinary education, and proposes to aid such advancement in every possible way.

COLLEGE COURSE.**Sanitary Medicine, the Control and Eradication of Contagious Diseases, and Meat Inspection.**

PROFESSOR D. E. SALMON, D. V. M., A. R. C. V. S. (HONORARY).

This subject will be taught by lectures covering the whole field of infectious diseases, their history, nature, cause, diagnosis, and treatment. The results of recent investigations in this country and abroad will be incorporated and particular attention given to available sanitary measures and the laws and regulations for their enforcement. The effect of animal diseases upon the public health and the means of protecting mankind from these plagues receive due consideration. The principles of meat inspection are developed in the final lectures of the course. Professor Salmon's experience in organizing and directing the work of the United States Government for the eradication of contagious diseases and for meat inspection enables him to present these subjects in a practical manner, which must be of great advantage to those who aspire to positions in National, State, or city governments. The course is looked upon as one of the most important in our curriculum, and no efforts will be spared to maintain it at the highest degree of efficiency.

Theory and Practice of Medicine and Surgery.

PROFESSOR JOHN LOCKWOOD, D. V. S.

The course in the practice of veterinary medicine and surgery will consist of didactic and clinical lectures. Daily clinics will be held. At these the student will be given every opportunity to learn all that each case may show. The methods of examination, differential diagnosis, and treatment will be thoroughly taught. The use of anesthetics, the practice of dental surgery, lameness, and male and female castration will be especially dwelt upon.

General Physiology.

PROFESSOR WILLIAM P. CARR, M. D.

Every effort will be made to teach this subject in a thorough, scientific, and practical manner. The ground will be fully covered by a two years' course of lectures, and these lectures so illustrated by modern diagrams, models, and experiments as to make them perfectly clear in every detail. Especial emphasis will be given to those truths that have a practical value.

Physiological anatomy will receive especial attention, and will be illustrated by charts, diagrams, working models, and anatomical specimens in all cases and by demonstrations upon anesthetized living animals when necessary for a thorough understanding of the subject. Physiological anatomy will also be taught in the laboratory, and an opportunity will be given students to do practical physiological work as far as their time will permit.

Chemistry and Toxicology.

PROFESSOR E. A. DE SCHWEINITZ, A. M., Ph. D., M. D.

This course embraces:

A short discussion of the principles of physics in their relation to Chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals; their methods of isolation, properties, compounds, and reactions will be studied.

Due attention will be given to Organic Chemistry, especially those compounds that are of use in medicine.

Laboratory instruction will be given in the general methods of qualitative and quantitative analysis, toxicology, urine analysis, water analysis, and special clinical analysis.

Opportunity for advanced work in biochemistry will be afforded.

Special Physiology and General Pathology.

PROFESSOR CHARLES F. DAWSON, M. D., D. V. S.

Weekly lectures extending over the whole term will be given in Physiology. The instruction will be given from a strictly veterinary standpoint, the leading subjects discussed to be the Physiology of Digestion and the Physiology of the Locomotor Organs.

In general pathology, weekly lectures will be given. Special attention will be given to the morbid anatomy and microscopic changes involved in inflammation, degeneration, hypertrophy, atrophy, and tumors. Methods for making autopsies and recording data will also be considered. The instruction will be given by means of lectures, recitations, and laboratory work. The demonstrations of both the gross and microscopic changes involved in the various disease processes will be given by Professor Carroll in the laboratory of the Medical Department.

Obstetrics and Zootechnics.

PROFESSOR A. M. FARRINGTON, B. SC., B. V. S.

The course of instruction will consist of lectures on obstetrical anatomy, fetal development, presentations, and the diseases incidental to the periods of gestation and parturition.

The lectures will be illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

Professor Farrington will also deliver a course of lectures on the breeds of horses, cattle, sheep, and swine, including their breeding, feeding, and management. This course will also embrace precautions to be observed in importing animals, their purchase, shipment, and quarantine—subjects of great value to those engaged in the handling of pure-bred stock.

Materia Medica and Therapeutics.

PROFESSOR D. E. BUCKINGHAM, V. M. D.

The principles and practice of comparative therapeutics will be taught, including prescription writing. The course will also include an exhibition of the drugs and a description of the agencies, not drugs, employed by the veterinarian. Practical instruction will be given in all the methods used in the exhibition of medicines.

Pathology and Bacteriology (Practical).

PROFESSOR JAMES CARROLL, M. D.

In addition to the study of gross changes of appearance seen in ordinary diseases, special attention will be given to the minute changes occurring in tissues in inflammation and inflammatory affections of the various organs, as well as to the cellular structure of the important tumors and new growths. To this end the microscope will be freely used. An attempt will also be made to impress upon the student the importance of a thorough and systematic autopsy in all cases, besides which he will have practical illustrations of the most approved methods for preparing bacteriological slides and cultures from the blood and other tissues of animals after death.

In his practical course in the Pathological Laboratory of the Medical Department the student will be taught to handle, stain, and mount his own sections, which will thereafter belong to him for purposes of future reference and study.

Canine Medicine and Surgery.

PROFESSOR CECIL FRENCH, D. V. S.

The purpose of this course is to make students thoroughly acquainted with diseases of the dog and the modern methods of treatment. The course will consist of about twenty-four lectures and will be conducted by Dr. French, whose practice is confined entirely to the treatment of the canine race.

Students will have excellent opportunities for clinical observation on dogs of all breeds and ages under medical or surgical treatment at Dr. French's private modern canine infirmary.

Parasitology.

PROFESSOR ALBERT HASSALL, M. R. C. V. S.

The instruction in this branch will consist of lectures upon the various parasites with which the domesticated animals are infested. Instruction as to prevention, eradication, and the treatment of the diseases caused by them will also be given.

Histology.

PROFESSOR W. S. WASHBURN, M. D.

The study of Histology is compulsory for students in the first year of their course. Special attention will be given to the manipulation of the microscope and to that part of the technique necessary for an intelligent study of the tissues. This will be followed by a systematic study of the cellular structure of the elementary tissues and organs of animals. The histological laboratory is well equipped with microscopes and accessory apparatus necessary for carrying out a thoroughly practical course of study in this subject. Examinations will be held at the close of each session.

The practical part of this course will be given in common with the medical class in the histological laboratory of the University.

Anatomy.

This essential branch will be taught by numerous lectures, daily reviews, and practical work in the dissecting-room. The work in this branch will be under the immediate direction of Dr. C. F. Hadfield. During the first half of the term practical work will be done in the anatomy of a carnivorous animal—the dog or the cat. The latter half will be devoted to equine anatomy, and, when possible, bovine visceral anatomy will be demonstrated. Thorough and satisfactory work in this subject will be required.

Zoölogy.

PROFESSOR CH. WARDELL STILES, A. M., PH. D., M. S. (HONORARY).

The courses in Zoölogy are designed (1) to give the student a general knowledge of the animal kingdom as a matter of general education and culture; (2) to serve as an introduction to Anatomy, Histology, Physi-

ology, Obstetrics, and Breeding; 13 to aid the student in the study of Sanitary Medicine and Meat Inspection.

The following courses will be given during the session of 1896-1897:

I. EMBRYOLOGY.—Two hours per week during the fall term. This course will consist of about twenty lectures, including a general introduction to the biological sciences and a discussion of embryology up to the subject of organology. The lectures will be illustrated by numerous charts and diagrams. Required of Freshman Class.

II. ANIMAL PARASITES OF MAN.—Two hours per week during January and February. In this course the lecturer will give a general introduction to the subject of parasitology and a discussion of the protozoa, flukes, tapeworms, roundworms, arachnoids, and insects parasitic in the human subject. Particular attention will be given to the species which are transmissible to man from the domesticated animals. The lectures will be illustrated by a series of wall maps by Leuckart, by crayon sketches, by numerous original charts prepared especially for this course, and by exhibition of specimens. Practical laboratory exercise in microscopic examination of meat for trichinosis and of feces for the eggs of intestinal parasites will supplement the lectures. Required of Junior Class, elective with Senior Class.

Reviews.

In order to more thoroughly point out and impress upon the mind of the student the essentials of the subjects taught, frequent reviews are held by the members of the Faculty.

These reviews not only stimulate the student by clearing up obscure points and thereby awakening in him renewed interest, but they are a great help in fixing the material facts in his mind and in preparing him for the final examinations.

Medical Association.

This Association was organized by the class in 1892. The membership is made up of members of the Faculty, graduates of the College, senior and junior students. Its meetings take place weekly, and all students are required to attend, it being considered a very important part of the instruction given in this College. Several members of the Faculty are habitual attendants, and by their presence encourage good work and at the same time correct any error into which the essayist or critics may fall.

Curriculum.

FIRST YEAR—FRESHMAN CLASS.

Anatomy, Physiology, Chemistry, Materia Medica, Prescription Writing, Pharmacy, Histology and Technique of Microscope, Theory and Practice of Shoeing, Dentition, Embryology, Exterior of the Horse.

At end of first year preliminary examinations in Chemistry, Pharmacy, Microscopy, Topographical Anatomy, Osteology, Dentition, Shoeing, Embryology.

SECOND YEAR—JUNIOR CLASS.

Anatomy, Physiology, Materia Medica, Histology, Chemistry, Pathology, Sanitary Medicine, Principles and Practice of Medicine and Surgery, Obstetrics, Zootechnics, Parasites of Man.

At end of second year final examinations will be held in Materia Medica, Histology, Obstetrics and Zootechnics, Parasites of Man, and Chemistry.

THIRD YEAR—SENIOR CLASS.

Pathology, Bacteriology, Sanitary Medicine, Principles and Practice of Medicine and Surgery, Canine Practice, Physical Diagnosis, Parasitology, Veterinary Physiology.

At end of third year students will be examined for the degree in all the branches not hitherto completed. Students from other colleges will be allowed to enter the senior class by presenting satisfactory evidence of having passed final examinations in the branches taught during the first and second years.

College Building.

The College building is a two-story structure, completely isolated from other buildings, thus allowing an abundance of light and pure air to stream in through its numerous windows; the lecture hall is large, giving ample breathing space—items of considerable importance to students who are confined four or five consecutive hours daily.

The Hospital Building.

This is adjacent to the College building and will be ample for all present needs. It is provided with stalls for the treatment of all classes of

patients. A large yard in the rear of the hospital affords an excellent place for examining and exercising the patients and for enlarging the hospital when this becomes necessary.

Laboratories.

The laboratories of *Histology*, *Pathology*, *Bacteriology*, and *Chemistry* are located in the building of the Medical Department of the University, and veterinary students will be given instruction in these branches in common with the medical students.

The *Anatomical Laboratory* is large, well lighted and ventilated, and occupies most of the second floor of the College building. It is supplied with the necessary conveniences for the work carried on in it.

Requirements for Graduation.

Candidates for graduation must be of good moral character, correct in deportment, twenty-one years of age, have attended full courses of lectures, the last of which must have been in this College, have paid all fees due the College, and have passed a satisfactory examination before the Faculty.

Fees for Entire Course.

	1st year	2d year	3d year
Registration fee	\$5 00	\$5 00	\$5 00
Lecture and dissecting fees	75 00	75 00	75 00
Final examination fee			10 00
Totals	\$80 00	\$80 00	\$90 00

Regulations and General Information.

Graduates in human medicine will be admitted to the Junior Class.

Students will be exempt from examination in any branch upon which they can submit evidence of having passed a final examination in any recognized medical school, college, or university.

All fees should be paid on entering the College or arrangements made with the Secretary for subsequent payments. The examination fee must be deposited with the Secretary on or before April 1.

The cost of living in Washington will, as elsewhere, vary with the individual taste and requirements. Generally speaking, it is about the same as in other large cities. Rooms and board can be obtained in the immediate vicinity at from \$15 to \$25 per month. The College and Hospital buildings are located at the intersection of New Jersey avenue and O street, N. W., and are in proximity to five different street car lines, which run to all parts of the city and suburbs, making it possible for students to visit places of historic interest at a nominal cost.

Students who arrive via the Pennsylvania railroad can reach the College directly by taking the Seventh-street cable-car at Seventh street and Pennsylvania avenue and riding north on Seventh to O street. The College is three blocks east of this point. Those who arrive via the Baltimore and Ohio railroad can reach the College by taking the Belt Line car going north on First street, one block west of the depot. This line runs in a northerly direction, passing the College.

For further information address

Dr. CHARLES F. DAWSON, *Secretary,*

New Jersey Avenue and O Street, N. W.,

Washington, D. C.

THE HOSPITAL.

Dr. JOHN LOCKWOOD,
House Surgeon.

Dr. C. F. HADFIELD,
Assistant House Surgeon.

Dr. D. E. BUCKINGHAM,
Dr. CECIL FRENCH,
Visiting and Consulting Surgeons.

Clinical Instruction.

No pains or reasonable expense will be spared to secure ample clinical material for instruction. During the session just ended all our students had opportunities of witnessing many and varied clinics.

The private practices of the above-named veterinarians will be utilized as far as necessary to give thorough and complete clinical instruction in

the diseases of horses, cows, and dogs, as well as the smaller animals to be found in the household.

Physical diagnosis, writing *certificates of soundness*, and *veterinary dental surgery* will be important features of the hospital instruction, and attendance by *all* students is required.

Students in Veterinary School.

Name and address	State
L. E. Almony, 1425 Eighth Street, N. W.,	Maryland.
Reid R. Ashworth, 110 M Street, N. W.,	Rhode Island
F. B. Berger, 1425 Eighth Street, N. W.,	Maryland.
W. H. Bolyn, 943 Virginia Avenue, S. W.,	Virginia.
B. A. Brown, 623 M Street, N. W.,	Canada.
W. P. Ellenberger, 1425 Eighth Street, N. W.,	Illinois.
G. W. Horner, 1425 Eighth Street, N. W.,	Maryland.
A. G. Kern, 611 M Street, N. W.,	Tennessee.
J. N. Megary, 1425 Eighth Street, N. W.,	Maryland.
H. N. Meyer, 1715 Seventh Street, N. W.,	Pennsylvania.
John Shaw, 1217 P Street, N. W.,	Delaware.
Alfred F. Schulz, 911 G Street, N. W.,	Germany.
R. H. Twitty, 1425 Eighth Street, N. W.,	North Carolina
G. R. White, 1425 Eighth Street, N. W.,	Tennessee.
Charles J. Weinheimer, 621 Maryland Ave., S. W.,	District of Columbia.
Halbert Young, 1517 Howard Street, N. W.,	District of Columbia.

Text-Books and Works of Reference.

Anatomy: Strangeway, Chauveau, McFadyean, Howell's Dissection of the Dog.

Physiology: Mills' Comparative, F. Smith, Flint, Yeo.

Materia Medica and Therapeutics: Finlay Dun, Wood, Bartholow.

Chemistry: Simon, Atfield, Remsen's Organic.

Surgery: Liantard.

Practice: Friedberger and Frohner.

Obstetrics: Fleming.

Canine Practice: Mills, Hill, Youatt, Mayhew, Steel.

Veterinary Dentistry: Hinebaugh, Clarke.

Lameness and Shoeing: Zundel, Fleming.

Dictionary: Dunglison, Keating, Gould.

Age of Domestic Animals: Huidekoper, Liantard.
Bacteriology: Abbott, Sternberg.
Zoology—Parasites: Neumann by Fleming; Stiles. Embryology:
Hertwig.
Meat Inspection: Walley.
Histology: Piersol, Schaefer.
Cattle Practice: Steel, Hill.
Exterior of the Horse: Goubaux & Barrier, Percival.
Pathology: Green, Delafield & Prudden.

Freshmen should procure text-books on the following subjects: Anatomy, Physiology, Materia Medica and Therapeutics, Chemistry, Obstetrics, and a Medical Dictionary.

DEPARTMENT OF UNIVERSITY EXTENSION.

CHARLES T. SEMPERS, A. M., Director.

The object of University Extension is to provide the means of higher education for persons without interfering with the regular occupations of life.

This is accomplished by means of—

The Lecture Course.

The Class Course.

The Correspondence-study Course.

THE LECTURE COURSE.—In order to make the Lecture Course attractive to persons desiring merely a general acquaintance with the subjects taught, as well as to students who are anxious to make a more thorough study, a special method is followed.

LECTURERS.—The lecturers are either professors in The Columbian University or persons specially approved by the University.

THE CLASS COURSE usually consists of a series of ten weekly meetings with the lecturer, each meeting occupying about one hour. Personal teaching, study, and discussion, following a required text-book, take up the entire time.

THE CORRESPONDENCE-STUDY COURSE is conducted by mail. It consists of forty weekly exercises written by the student under the direction of an instructor. A student may begin a course at any time of the year.

EXPENSE.—The fee for the Lecture Course is \$130. The fee for the Class Course is \$75. These fees are due at the time of the second meeting from the center or class as a whole to the office. The cost to the individual varies according to the number of members in the center or class. The price of course tickets has usually been between \$1 and \$2.50. The fee for the Correspondence Course is \$20.

For circulars giving detailed information, address—

DIRECTOR UNIVERSITY EXTENSION,

THE COLUMBIAN UNIVERSITY,

WASHINGTON, D. C.

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DEGREES CONFERRED IN 1896.

HONORARY.

Doctor of Laws.

Name.	Residence.
Robert Stuart MacArthur, B. A., D. D., University of Rochester.	New York.
Adlai E. Stevenson,	Illinois.

Doctor of Divinity.

James Albert Buck, B. A., Bristol College, 1886.	District of Columbia.
George Hughes Hepworth,	New York.

UPON EXAMINATION.

Doctor of Philosophy.

Edward Clark Hudson, A. B., Hiawasse College, 1882. A. M., Columbian University, 1894. A. M., Honorary, Hiawasse, 1894.	Texas.
James Stephen Lemon, B. A., 1864, M. A., 1867, Wesleyan University.	New York.

Master of Science.

Edna Anne Clark, B. S., Columbian University, 1893.	New Hampshire.
Allan Davis, B. S., Columbian University, 1890.	Ohio.
Bolivar Lang Falconer, M. D., Georgetown University, 1895.	Texas.
Agnes Montgomery Graham, B. S., Columbian University, 1895.	Pennsylvania.
William Theodore Gray, U. S. Naval Academy, 1883.	North Carolina.

Name.	Residence.
Daisy Maud Orleman, M. D., Columbian University, 1890. B. S., Columbian University, 1893.	New York.
Clarence Le Roy Parker, B. S., Columbian University, 1895.	New York.
David Henry Sleem, B. A., 1879, M. D., 1887, Beirut College. M. D., 1889, New York University.	Syria.

Master of Arts.

Ewing Cockrell, A. B., Harvard University, 1895. B. L., University of Virginia, 1895.	Missouri.
Samuel Carroll Ford, A. B., Columbian University, 1894.	District of Columbia.
George Neely Henning, A. B., Harvard University, 1894.	District of Columbia.
Addie Estelle Maguire, B. S., Columbian University, 1895.	District of Columbia.

Doctor of Medicine.

Frank A. Barbour,	Mississippi.
Marion Dorset,	Tennessee.
James M. Fairly,	Mississippi.
W. A. Frankland,	Virginia.
O. J. Gwynn,	Colorado.
J. R. Hamilton,	Texas.
A. B. Hoos,	Virginia.
Montgomery Hunter,	Virginia.
A. L. Lawrence,	Ohio.
Hanson T. A. Lemon,	District of Columbia.
R. L. Lynch,	Indiana.
James McIlhenny,	District of Columbia.
E. W. Patterson,	Ohio.
H. T. Penny, M. D.,	Montana.
Delos N. Reeve,	Iowa.
Henry M. Seltzer,	Pennsylvania.
W. S. Scott,	Maryland.
Edwin P. Wolfe,	Iowa.
T. A. Whittington,	Nebraska.

Doctor of Dental Surgery.

Name	Residence
Richard V. Barry.	District of Columbia.
L. Joe Broughton.	North Carolina.
Edward F. Concklin.	Rhode Island.
Joseph L. Egan.	Connecticut.
Wilmer S. Hall.	Alabama.
Harry A. Jelly.	Maryland.
Llewellyn Jordan, M. D..	Mississippi.
Hubert L. King.	District of Columbia.
Samuel C. Lockett.	Texas.
John A. Moore.	Indiana.
Harry B. Moore.	District of Columbia.
J. Reverdy Stewart.	Virginia.
Robert E. L. Wiltberger.	District of Columbia.
James L. Whiteside.	Maryland.

Master of Laws.

Robert Felder Able.	South Carolina.
LL. B., Columbian University, 1895.	
William J. Acker.	District of Columbia.
LL. B., Columbian University, 1895.	
Daniel J. Carr.	Connecticut.
LL. B., Columbian University, 1895.	
John Barber Clark, Jr.,	District of Columbia.
LL. B., Columbian University, 1895.	
Alan Ogilvie Clephane.	District of Columbia.
LL. B., Columbian University, 1895.	
Ewing Cockrell.	Missouri.
A. B., Harvard University, 1895.	
LL. B., University of Virginia, 1895.	
George Bruce Cortelyou.	New York.
LL. B., Georgetown University, 1895.	
Jesse Padon Crawford.	Kentucky.
LL. B., Columbian University, 1895.	
J. A. Eakin Criswell.	New York.
LL. B., Columbian University, 1895.	
Alfred Newton Dalrymple.	District of Columbia.
LL. B., Columbian University, 1895.	

Name.	Residence.
Allen A. Davis, A. B., S. W. Baptist University, 1894. LL. B., Columbia University, 1894.	Tennessee.
William R. Davis, LL. B., Columbia University, 1895.	New York.
John E. Dawson, LL. B., Columbia University, 1895.	Massachusetts.
Robert Oldner Deyer, Stephen W. Gambrell, LL. B., Columbia University, 1895.	Virginia. Maryland.
Daniel Edward Garges, LL. B., Columbia University, 1895.	District of Columbia.
H. Prescott Garley, LL. B., Columbia University, 1895.	District of Columbia.
Frank Ferdinand Gentsch, LL. B., Columbia University, 1895.	Ohio.
John C. Goodfellow, LL. B., Columbia University, 1895.	District of Columbia.
Harvey B. Gram, LL. B., Columbia University, 1895.	Ohio.
Alpha M. Hassler, LL. B., Georgetown University, 1895.	South Dakota.
George C. Hazelton, Jr., LL. B., Columbia University, 1895.	District of Columbia.
John H. Hazelton, A. B., Johns Hopkins, 1893. LL. B., Columbia University, 1895.	District of Columbia.
David Merrill Hildreth, B. S., Dartmouth, 1887. M. S., Dartmouth, 1894. LL. B., National University Law School, 1893.	New Hampshire.
Herman R. Howenstein, LL. B., Columbia University, 1895.	Missouri.
A. Roland Johnson, LL. B., Columbia University, 1895.	District of Columbia.
Lee Mason Jordan, LL. B., Columbia University, 1895.	Georgia.
Carter Brewster Keene, LL. B., Columbia University, 1895.	Maine.

Name.	Residence.
Harry G. Kimball, LL. B., Columbian University, 1895.	District of Columbia.
Harvey C. Long, Marvin M. McLean, LL. B., University of Texas, 1890.	Mississippi Texas.
Christopher K. Macey, LL. B., Columbian University, 1895.	New York.
C. Carroll Martin, LL. B., Columbian University, 1895.	District of Columbia.
Edgar H. May, LL. B., Columbian University, 1895.	District of Columbia.
Robert F. Miller, LL. B., Columbian University, 1893.	District of Columbia.
George A. H. Mills, LL. B., Columbian University, 1895.	New York.
Emerson R. Sewell, A. B., Yale, 1893.	Connecticut.
Edwin Alonza Niess, LL. B., Columbian University, 1895.	Pennsylvania.
Francis Nye, LL. B., Columbian University, 1895.	District of Columbia.
Edwin Howe Peery, LL. B., Missouri State University, 1881.	Oregon.
Graham Hume Powell, LL. B., Columbian University, 1895.	New York.
Jesse Weems Rawlings, LL. B., Columbian University, 1895.	District of Columbia.
Emil Charles Schneider, LL. B., Columbian University, 1895.	Illinois.
John C. Seofield, A. B., 1880; A. M., 1884, Middlebury College.	Georgia.
Charles Frederick Sensner, LL. B., Columbian University, 1895.	Virginia.
F. Marion Smith, LL. B., Columbian University, 1895.	West Virginia.
Frederick George Stutz, LL. B., Columbian University, 1895.	District of Columbia.
William Leonard Symons, LL. B., Columbian University, 1895.	Ohio.

Name.	Residence.
Morven Thompson, LL. B., Columbian University, 1895.	District of Columbia.
Henry Stacey Tullis, LL. B., Columbian University, 1895.	Montana.
Horace Greeley Van Eversen, M. E., Cornell, 1891.	New York.
LL. B., Columbian University, 1895.	
William Warren Wernitz, LL. B., Columbian University, 1895.	Massachusetts.
David Edgar Wilson, A. B., Western Maryland College, 1893.	District of Columbia.
LL. B., Columbian University, 1895.	
Louis H. Wurfelshuler, LL. B., Kansas State University, 1895.	Kansas.

Master of Patent Law.

S. Hazen Bond, LL. B., Columbian University, 1894.	District of Columbia.
LL. M., Columbian University, 1895.	
William Duvall Brown, LL. B., Columbian University, 1892.	District of Columbia.
LL. M., Columbian University, 1893.	
Grant Barroughs, J. A. Eakin Griswell, LL. B., Columbian University, 1895.	District of Columbia. New York.
A. B. Cushman, LL. B., Columbian University, 1892.	Massachusetts.
LL. M., Columbian University, 1893.	
Clarence W. De Knight, Edward Taylor Fenwick, LL. B., Columbian University, 1890.	District of Columbia. District of Columbia.
Addison Irwin Gardiner, B. S., Worcester Polytechnic Institute, 1889.	District of Columbia.
LL. B., Columbian University, 1892.	
Walter R. Hensey, LL. B., Columbian University, 1894.	District of Columbia.
J. Granville Meyers, Jr., LL. B., Columbian University, 1893.	District of Columbia.
LL. M., Columbian University, 1894.	

Name	Residence
Gales Pritchard Moore, LL. B., Columbian University, 1894. LL. M., Columbian University, 1895.	District of Columbia.
Edward H. Parry, LL. B., Columbian University, 1894. LL. M., Columbian University, 1895.	Connecticut.
George W. Rea, William E. Schoenborn, LL. B., National University Law School, 1889.	District of Columbia New Jersey.
Edward G. Siggers, Rexford M. Smith, LL. B., Columbian University, 1884.	District of Columbia. Maryland.
Robert Watson, LL. B., Georgetown University, 1895.	Maryland.
David P. Wolhaupter, William W. Wright, Jr., LL. B., Buffalo Law School, 1891.	District of Columbia. District of Columbia.

Bachelor of Laws.

George Wilson Baker, Marcus Baker, A. B., University of Michigan, 1870.	District of Columbia. District of Columbia.
Rufus H. Baker, A. B., Dartmouth, 1893.	New Hampshire.
Frank M. Barnes, Grove Sidney Beardsley, Don P. Blaine, Michael Francis Blenski, Frank Cory Bliss, Eugene J. Bogen, H. Le Roy Browning, Sherman E. Burroughs, A. B., Dartmouth, 1894.	Minnesota. New York. New York. Wisconsin. Pennsylvania. Mississippi. Illinois. New Hampshire.
Charles Benedict Calvert, George Henry Calvert, Jr., A. B., Maryland Agricultural College.	Maryland. Maryland.
Luther Sidney Cannon, A. B., Wake Forest College, 1890.	North Carolina.
Charles B. Cheyney, B. A., Yale, 1894.	District of Columbia.

Name	Residence
Frank Leslie Churchill.	Wisconsin.
Harry Lincoln Clapp.	Massachusetts.
B. S., Massachusetts Institute of Technology, 1893.	
Francis W. Herrick Clay.	Kentucky.
C. E., Cornell, 1893.	
William H. Coleman.	Pennsylvania.
Henry Ruggles Conclin.	Rhode Island.
H. Karl Cooke.	District of Columbia.
Frank Parker Davis.	Massachusetts.
Guy E. Davis.	District of Columbia.
Robert Oldner Deyer.	Virginia.
Theodore T. Dorman.	New Jersey.
B. S., Massachusetts Institute of Technology, 1893.	
Bertram Martin Doyle.	Kentucky.
Ph. B., Riverside Seminary, 1892.	
George Thomas Dunlop, Jr.	District of Columbia.
John Joy Edson, Jr.	District of Columbia.
Thomas Freeman Epes.	Virginia.
James M. Fisher.	Virginia.
Arthur I. Flagg.	Virginia.
Justin E. Flannery.	Ohio.
Arthur Lewis Flint.	Ohio.
William Edwards Fort.	Georgia.
Samuel E. Fouts.	Indiana.
B. M. E., Purdue University.	
John Wesley Gardiner.	New York.
Arthur Garner.	District of Columbia.
John G. Gray.	Delaware.
Thomas Newcome Greer.	Tennessee.
Frank R. Hanna.	Kansas.
Charles B. Harding.	Pennsylvania.
Thomas B. Harrison.	Kentucky.
William Haywood.	District of Columbia.
Granby Hillyer.	Georgia.
Charles A. Hines.	District of Columbia.
Frank S. Holliger.	Missouri.
Jason Claiborne Hundley.	Virginia.

Name	Residence
Arthur Johns,	District of Columbia.
Abraham B. Keefer,	Pennsylvania.
Colton H. Lee,	District of Columbia.
Robert Francis Livingston,	New York.
B. S., Cornell, 1894.	
John W. Loder,	Oregon.
B. S., McMinnville, 1894.	
Lucas Powell Loving,	Virginia.
Alexander D. Lunt,	New York.
M. E., M. M. E., Cornell.	
B. S., Worcester Polytechnic Institute.	
Ormsby McAnnon,	District of Columbia.
John J. McGinn,	Indiana.
James Madison,	Virginia.
Charles Bott Mann,	Mississippi.
Henry M. Marshall,	Virginia.
John A. Massie,	District of Columbia.
Leonard J. Mather,	District of Columbia.
Guy Stanley Meloy,	Maryland.
Edward Pool Mills,	Virginia.
Frank Horace Moore,	Kansas.
A. B., Kansas University, 1894.	
Noble Moore,	Tennessee.
Henry Orth, Jr.,	District of Columbia.
Wilber Allen Owen,	Michigan.
Charles W. Parker,	Virginia.
Thornton Jenkins Parker,	Rhode Island.
Orin Patterson,	Missouri.
Bennett Peck,	District of Columbia.
Francis Mohun Phelps,	Connecticut.
James Franklin Philp,	New York.
Aurelian Howard Pinney,	Iowa.
William Bell Pugh,	Kentucky.
J. Castle Ridgway,	Illinois.
Thomas M. Robertson,	North Carolina.
Raymond Robins,	Florida.
J. Martin Serrage,	West Virginia.
Arthur Bingham Seibold,	District of Columbia.
Clem L. Shaver,	West Virginia.

Name.	Residence.
Alonzo Walter Shunk,	Pennsylvania.
Laban Sparks,	Maryland.
Henry E. Stauffer,	Delaware.
Charles H. Stevenson,	Maryland.
W. P. Stone,	Arkansas.
James A. Tanner,	District of Columbia.
Blair W. Taylor,	West Virginia.
William Hill Taylor,	Ohio.
Robert W. Test,	Illinois.
Clarke Kirk Tilton,	District of Columbia.
John Sarsfield Tucker,	New York.
William Pinckney Walker,	Ohio.
John L. Weaver,	District of Columbia.
William James Whitaker,	Pennsylvania.
George Dudley Whitney,	New Jersey.
Gerome M. Whitney,	Virginia.
Robert Emmet Wiley,	Arkansas.
Charles Frederick Wilson,	District of Columbia.
Joshua S. Zimmerman,	West Virginia.
A. B., Randolph Macon College.	

Bachelor of Arts.

Edward Albert Playter,	Iowa.
H. May Johnson,	District of Columbia.
Hennetta Camille Morrison,	Missouri.
Mary Katherine Chapin,	Illinois.
Eleanor Wilson,	District of Columbia.

Bachelor of Science.

Harry Hampton Donnelly,	Virginia.
Alfredo Victor Gana,	Chile.
Ph. B., University of Chile, 1893.	
Mortimer B. Hall,	Maryland.
James Richard Hamilton, M. D.,	Texas.
John Bartlett Hull,	Georgia.
U. S. Naval Academy.	
Elliott Cones Prentiss,	District of Columbia.
H. Worthington Talbott,	Maryland.

Recapitulation.

Students in the College	96
Students of Medicine	186
Students of Dentistry	60
Students of Law	318
Students in the Scientific School	192
Students in the Graduate School	36
Students in the Summer School	57
Students in the Academy	52
Students in the Veterinary School	16
Total	1,013

Geographical Distribution of University Students.

Alabama	5	Michigan	17	Texas	13
Arkansas	5	Minnesota	10	Utah	1
California	6	Mississippi	7	Vermont	7
Colorado	1	Missouri	16	Virginia	87
Connecticut	9	Montana	1	Washington	3
Delaware	3	Nebraska	5	West Virginia	13
Dist. of Columbia	330	Nevada	3	Wisconsin	14
Florida	2	New Hampshire	6		
Georgia	21	New Jersey	10	Armenia	1
Idaho	1	New York	53	Canada	2
Illinois	31	North Carolina	25	Chile	1
Indiana	11	North Dakota	1	England	4
Iowa	12	Ohio	38	Germany	2
Kansas	8	Oklahoma	1	Japan	1
Kentucky	14	Oregon	1	Mexico	1
Louisiana	10	Pennsylvania	50	Norway	1
Maine	13	Rhode Island	4	Scotland	1
Maryland	65	South Carolina	13		
Massachusetts	25	Tennessee	25	Total	1,013

The Columbian University

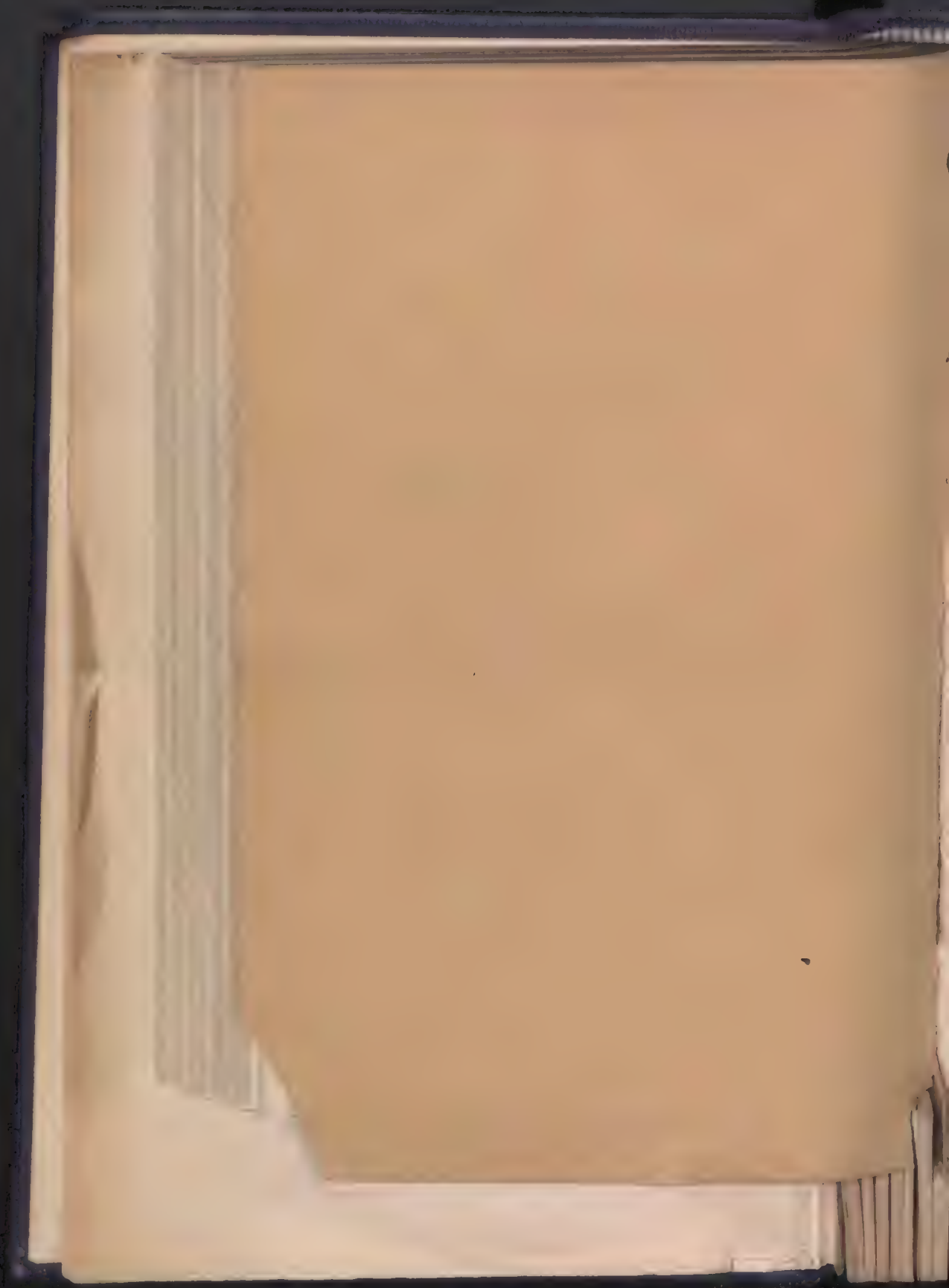
THE
COLUMBIAN ACADEMY

WASHINGTON, D. C.



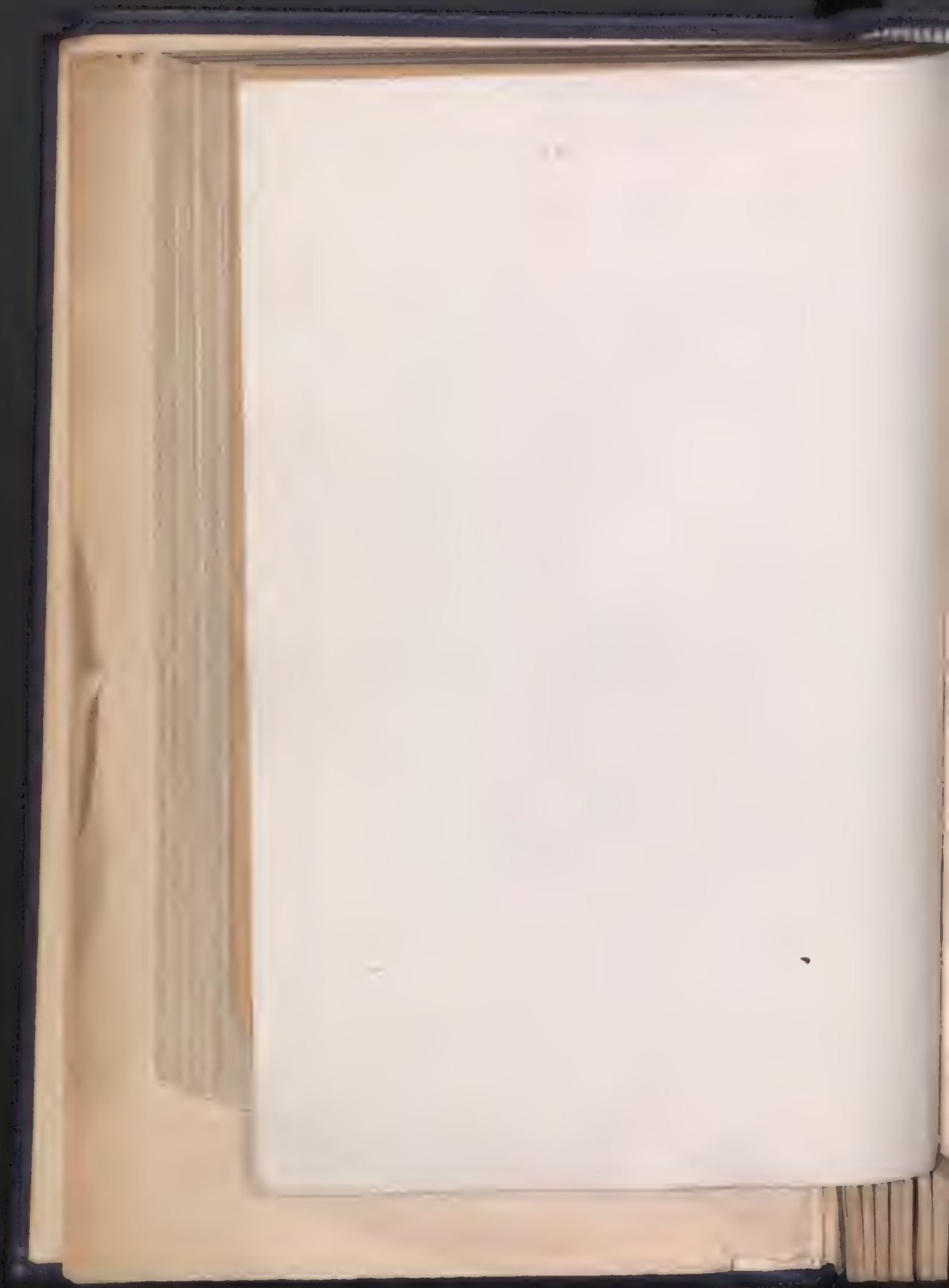
1896-'97

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THE COLUMBIAN ACADEMY.



The Columbian University

THE
COLUMBIAN ACADEMY

WASHINGTON, D. C.

1896-'97

Judd & Detweiler
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Calendar.

1897.

January 4, Monday.....	Second Term begins.
February 22, Monday.....	Washington's Birthday, Holiday.
March 4, Thursday.....	Inauguration Day, Holiday.
March 15-17, inclusive.....	Examinations.
March 17, Wednesday.....	Second Term closes.
March 18-21, inclusive.....	Spring Recess.
March 22, Monday.....	Third Term begins.
April 10, Friday.....	Good Friday, Holiday.
May 31, Monday.....	Memorial Day, Holiday.
June 2-4, inclusive.....	Examinations.
June 4, Friday.....	Third Term closes.
June 8, Tuesday.....	Annual Graduation Exercises.

Summer Vacation.

September 20, Monday.....	Entrance Examination.
September 21, Tuesday.....	First Term begins.
November 25-28, inclusive.....	Thanksgiving Recess.
December 20-22, inclusive.....	Examinations.
December 22, Wednesday.....	First Term closes.

Winter Vacation.

1898.

January 3, Monday.....	Second Term begins.
February 22, Tuesday.....	Washington's Birthday, Holiday.
March 21-23, inclusive.....	Examinations.
March 23, Wednesday.....	Second Term closes.
March 24-27, inclusive.....	Spring Recess.
March 28, Monday.....	Third Term begins.
April 8, Friday.....	Good Friday, Holiday.
May 30, Monday.....	Memorial Day, Holiday.
June 6-8, inclusive.....	Examinations.
June 8, Wednesday.....	Third Term closes.
June 10, Friday.....	Annual Graduation Exercises.

THE COLUMBIAN ACADEMY
OF
THE COLUMBIAN UNIVERSITY.

THE FACULTY.

THE REV. BENAIAM L. WHITMAN, D. D., President.

WILLIAM ALLEN WILBUR, A. M. (*Brown*), Dean.
Latin.

HENRY ROGERS PYNE, A. M. (*Columbia*).
Greek and Latin.

GEORGE NEELY HENNING, A. B. (*Harvard*), A. M. (*Columbia*),
English, German, French.

OSCAR WILLIAMS ANTHONY, M. S. (*University of Iowa*),
Mathematics.

FRANKLIN P. HOBGOOD, Jr., A. B. (*Wake Forest*).
Natural Science, History.

PAUL A. STEELE.
Penmanship, Book-keeping.



F. P. Hobgood, Jr.	O. W. Anthony	Paul A. Steele.
Henry R. Pyne.	William A. Wilbur, Dean.	George N. Henning.

Courses of Study.

The Columbian Academy is an integral part of The Columbian University and is the accredited fitting school for The Columbian College. It was established in 1821, and for seventy-four years it bore the name of The Preparatory School of The Columbian College. The success of this school and its honorable history are particularly identified with two men widely known in the cause of education:

ORIS T. MASON, Ph. D., Principal, 1861-'84.

ANDREW P. MONTAGUE, Ph. D., Principal, 1884-'95.

Since 1895, under its present organization, courses of study have been developed and extended, the grade of all departments of instruction has been made equal to that of the best preparatory schools, and a strong effort has been made to bring all of this work to the highest degree of efficiency.

The Committee of the Corporation of The Columbian University on the Academy consists of:

J. ORMOND WILSON, Esq.

ORIS T. MASON, Ph. D.

SAMUEL W. WOODWARD, Esq.

The corps of instruction is composed of experienced teachers specially qualified for the work of their respective departments.

The Academy offers three courses of study: The first of these is especially designed to meet the requirements of the colleges; the second to meet the requirements of the scientific schools; the third to give a good general education of disciplinary and practical value to those who do not enter higher institutions.

Classical Course.

Mathematics	4 years.
Latin	4 "
Greek	3 "
English	4 "
German or French	1 year.
Natural Science	1 "
History	2 years.

Scientific Course.

Mathematics	4 years.
Latin	4 "
English	4 "
German or French	2 "
Natural Science	3 "
History	2 "

General Course.

Mathematics	4 years.
Latin	2 "
English	4 "
German	2 "
French	2 "
Natural Science	3 "
History	3 "

* After 1897 this requirement will be increased to two years.

SCHEDULE OF STUDIES.

THE COLUMBIAN UNIVERSITY

7

SUBJECT	PREPARATORY YEAR	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Mathematics	Arithmetic ⁴	Algebra ⁵	Algebra ⁵	Geometry ⁵	Solid Geometry and Plane Trigonometry Reviews ⁵
Latin		Latin Lessons Hortensius Nepos (1 term)	Caesar, Cicero, and Cato (throughout course)	Verbal ⁵	Oratio ⁵
Greek			Greek Lessons ⁵	Verbal, Greek and English composition throughout course	Homor Reviews ⁵
English.	Grammar, Composition, Literature, Reading throughout course ⁴	Grammar, American Literature, Studies	Rhetoric and English Composition	English Literature Studies	English Composition and Reading ⁵
German				Grammar and Essay Phase	Composition and Reading of Authors ⁵
French				Grammar and Essay Phase	Composition and Reading of Authors ⁵
Natural Science	Elementary Geology, 12 terms, Physiology 12 terms ⁵	Physical Geography ⁵		Physics ⁵	Chemistry ⁵
History.	American 12 terms, English 12 terms ⁵	Greek History ⁵	Roman History, Civil Government and American History ⁵	General History ⁵	

* Number of recitation periods a week. General requirements. Spelling, Compositions, Declamations, Penmanship throughout the course.

I.

The Classical Course.

This course of study is designed to furnish adequate preparation for any college. Latin, Greek, Mathematics, and English are fundamental to a liberal education. They are the means of gaining knowledge and are a necessary part of the preparation of all who contemplate the more extended courses of study.

Progressive development is sought. In the languages emphasis is laid upon thorough knowledge of forms and usages, as well as upon intelligent translation, and composition is required from the first. Clear thought, close analysis, accurate expression, are everywhere insisted upon. In the higher classes the elements and qualities of style are studied and independent thought is encouraged.

SUBJECTS.	DESCRIPTION OF THE CLASSICAL COURSE.	FIRST YEAR.	SECOND YEAR.	THIRD YEAR.	FOURTH YEAR.
Mathematics	Algebra, <i>a</i> . To Quadratics. <i>b</i> . Quadratics, Ratios and Proportion, Progressions, Permutations and Combinations. Binomial Theorem. Use of Logarithms. Plane Geometry. Demonstrations and Constructions.	5	3	3	2
Latin	Latin Lessons. Nepos. Cæsar, four books. Ovid, selections. Virgil, six books of <i>Æneid</i> . Cicero, six orations. Grammar and Composition throughout course.	5	5	3	3
Greek	Greek Lessons. Xenophon, four books <i>Anabasis</i> . Homer, three books <i>Iliad</i> . Grammar and composition throughout course.		1	3	3
English	English Grammar, analysis, parsing. American Literature Studies. Rhetoric and Composition. English Literature Studies. College Requirements in English Literature.	3	3	2	3
German or French.	1. <i>a</i> . Elements of Grammar. <i>b</i> . Reading of from two to three hundred pages easy prose. 2. Reading of Authors. German or French Composition.			3	3
Natural Science	Physical Geography	3			
History	Greek History to death of Alexander. Roman History to death of Marcus Aurelius.	3	2		
Whole number of recitations each week.....		19	20	20	18

* Number of recitation periods a week.

II.

The Scientific Course.

This course prepares for the scientific and technical schools. It is based on Mathematics, Latin, English, and Natural Science. In place of Greek there are offered more extended courses in Mathematics, Natural Science, and History.

Considerable latitude is permissible in the arrangement of the studies of this course to meet the demands of varying requirements and the wants of special students. Students entering upon this course may be fitted for the Naval Academy at Annapolis or the West Point Military Academy in three years. Mathematics, which is fundamental to the study of all natural science, is supplemented by such studies in science that the whole course is excellently adapted to those who are to be engaged in scientific research and activity.

SUBJECTS	DESCRIPTION OF THE SCIENTIFIC COURSE.	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Mathematics	Algebra — a. To Quadratics. — b. Quadratics, Ratios and Proportion, Progressions, Permutations and Combinations, Binomial Theorem, Use of Logarithms. Geometry — a. Plane. — b. Solid and Spherical Plane, Trigonometry.	8	8	5	3
Latin	As in Classical Course.	8	8	8	8
English	As in Classical Course.	3	3	2	3
German or French	As in Classical Course.			3	3
Natural Science	Physical Geography. Physics. Chemistry.	5		5	4
History.	Greek History to death of Alexander. Roman History to death of Marcus Aurelius. Civil Government in the United States.	3	4		
Whole number of recitation each week.		19	17	20	18

III.

The General Course.

This course is primarily for those who do not enter higher institutions. It offers four years in Mathematics and English, two years in Latin, German, and French, and a more extended course in History.

It is an Academic course, giving the mind thorough disciplinary training and contributing to its furnishings in many departments of knowledge. Attention is asked to the requirement of two years' study of Latin. Latin is essential to the study of human civilization, and it affords a discipline and culture of mind in observation, reasoning, and expression that make it indispensable.

Very many of the boys of our city are compelled to forego a college education and to enter at once, on leaving the Academy, some of the many avenues of self-support. This fact has been carefully considered, and this course is so arranged as to assist those who take it to make the best use of the time at their disposal.

SUBJECTS	DESCRIPTION OF THE GENERAL COURSE.	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Mathematics	(As in Scientific Course)	5	5	4	3
Latin	Latin Lessons. Nepos. Cæsar. four books. Cæsar. selections. Grammar and Composition.	5	5		
English	(As in Classical Course.)	5	5	4	3
German	1. <i>a</i> . Elements of Grammar. <i>b</i> . Reading of two hundred pages easy prose. 2. <i>a</i> . Reading of Authors. <i>b</i> . German Com- position.			3	3
French	1. <i>a</i> . Elements of Grammar, including reg- ular conjugations and common irregular verbs, more important uses of subjunctive. <i>b</i> . Reading of three hundred pages easy prose. 2. <i>a</i> . Reading of Authors. <i>b</i> . French Com- position.			3	3
Natural Sci- ence	Physical Geography. Physics, recitations, experiments, labora- tory work. Chemistry, recitations, experiments, labora- tory work.	3	3	5	4
History	Greek History. Roman History. Civil Government in the United States. Brief History of Civilization.	3	4	2	
Whole number of recitations each week		19	17	20	17

The Preparatory Year.

The Academy offers a year of preparatory study which gives to younger pupils not prepared for the regular academic work a uniform preparation, and also insures a high standard of requirement throughout the course. The worth of this is commended to those who intend to enter their sons at a later time for the regular course at the Academy. The personal supervision of younger boys and their special preparation for the regular course of study is a feature in the policy of the School which experience has suggested. We believe the wisdom of this will appear to many whose boys, though yet too young to begin secondary studies, nevertheless need the systematic training of regular work and personal supervision.

This course of preparatory work includes Arithmetic, English Grammar, Geography, Physiology, American and English History. The text-books used are Milne's "Standard Arithmetic," Whitney and Lockwood's "Elements of English Grammar," Fry's "Complete Geography," Blaisdell's "Our Bodies and How We Live," Montgomery's American History, Montgomery's English History. The Arithmetic class begins at percentage and completes the study by the end of the year. Geography is completed at the end of the second term, and Physiology is studied during the third term. In History the first half year is given to American History and the second half to English History.

Text-Books.

MATHEMATICS.

The Standard Arithmetic.	Milne.
Academic Algebra.	Wells.
Plane and Solid Geometry, Revised.	Wells.
Plane Trigonometry.	Wentworth.

LATIN.

First Latin Book.	Collar and Daniell.
Latin Grammar.	Allen and Greenough.
Nepos, Lives.	Roberts.
Cesar, Gallic War.	Allen and Greenough.
Ovid, Metamorphoses.	Allen and Greenough.
Vergil, Æneid.	Greenough and Kittredge.
Cicero, Orations.	Greenough and Kittredge.
Latin Composition.	Daniell.

GREEK.

First Greek Book	White.
Greek Grammar	Goodwin.
Xenophon, Anabasis	Goodwin.
Homer, Iliad	Seymour.
Greek Composition	Collar and Daniell.

ENGLISH.

English Grammar	Whitney and Lockwood.
History of American Literature	Matthews.
Foundations of Rhetoric	A. S. Hill.
Exercises in English Composition	Exchler.
English Literature	Painter.

GERMAN.

Grammar	Jonnes-Meissner.
Das Kalte Herz	Hauff.
Immensee	Storm.
Der Neffe als Onkel	Schiller.
Höher als die Kirche	Haller.
Die Harzreise	Höme.
Wilhelm Tell	Schiller.
Hermann und Dorothea	Gottlo.
Maria Stuart	Schiller.

FRENCH.

Grammar	Edgren.
French Composition	Grandgent.
French Reader	Rollins.
La dernière Classe	Daudet.
Le Siège de Berlin	Daudet.
Les Précieuses ridicules	Molière.
L'Abbé Constantin	Halevy.
Un Mariage d'amour	Halevy.
Colomba	Mérimée.
Le Cachet rouge	De Vigny.

NATURAL SCIENCE.

Complete Geography	<i>Few</i>
"Our Bodies and How We Live"	<i>Blaisdell.</i>
Physical Geography	<i>Tarr.</i>
School Physics	<i>Acery.</i>
Introduction to Chemical Science	<i>Williams.</i>
Laboratory Manual of General Chemistry	<i>Williams.</i>

HISTORY.

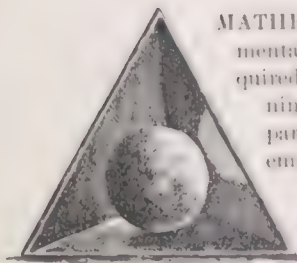
American History	<i>Montgomery.</i>
Leading Facts of English History	<i>Montgomery.</i>
History of Greece	<i>Mace.</i>
History of the Roman People	<i>Allen.</i>
Brief History of the Nations	<i>Fisher.</i>
History of Civil Government in the United States	<i>Fiske.</i>
History of American Politics	<i>Johnston.</i>

Instruction.

The Academy is conducted on Christian principles, both in its discipline and its teachings, but no instruction is given and no influence exerted that is of a sectarian character. Effective work is dependent upon order, and order will be maintained. Subordination is essential to the purpose of study, but, further than this, it is an end in itself. Self-discipline for its own sake is absolutely essential in education. Sympathy and confidence are the necessary relations of the teacher and the pupil. Such relations keep alive the boy in the man and develop the man in the boy. It is believed that all instruction should be an incentive to the pupil, and that that instruction only is wholesome which appeals to the whole man. Studies have been correlated with a view to the symmetrical development of the student, to an insight into the world in which we live, and to some command over its resources.

I.

Mathematics.



MATHEMATICS, the science of all quantity, is of fundamental importance. The study of Mathematics is required in all of the regular courses. Arithmetic, beginning at percentage, is studied throughout the preparatory year, and is completed in that year. A just emphasis is given to such practical examples as the boy meets at every turn, and the aim is to make him master of such processes as he will need in life.

Algebra is studied through the first two years. During the first year the class will take up the following subjects: Fundamental Operations, Fractions, Equations of the First Degree, with one or several unknown quantities. During the second year the class will take up Involution and Evolution, Theory of Exponents, Radicals, Quadratic Equations, Ratio and Proportion, the Progressions,

Binomial Theorem, Logarithms. It is the purpose in this instruction to give the student perfect familiarity with the fundamental processes, to encourage him to seek original methods, and to make him proficient in the statement and solution of problems.

Plane Geometry is completed in the third year. Those who require Solid Geometry and Trigonometry in the Scientific and General Courses will take them in the fourth year. In all of this work it is the purpose to be thorough. The student is made to master the methods of Geometry, and he is required to solve a large number of original propositions, which are preserved in note books in complete form. In Trigonometry the fundamental propositions of geometry and triangles are studied, and the course is made as practical as possible.

II.

The Ancient Languages.

LATIN AND GREEK are of the highest importance in the Secondary school. The work in these languages is preparatory to the appreciative study of their literatures. In this preparatory study Grammar and

Composition become an end in themselves, and they are also a most efficient means of mental discipline. The man who knows no Latin or Greek has innumerable doors of scientific and professional activity closed to him, and he finds his own language a mystery.

The aim of the Academy is to graduate students who can write and explain Latin and Greek with a degree of readiness, and can translate these languages with ease and accuracy. Knowledge of the principles of Latin and Greek construction will be tested by constant exercise in composition.

Attention will be paid to Latin and Greek terms and roots with a view to their proper use in the construction of scientific terminology. Passages will be memorized, and written work will supplement oral work in the classroom, in order that ear and eye and memory may aid in fixing the forms of the language.

The text itself will be read and the pupil will be encouraged to appreciate the meaning without translation and in the order of the original. Questions on the text will, in general, be asked before the translation is begun. This holds attention on Latin forms and relations, and by re-

moving difficulties beforehand, makes possible a rendering into idiomatic English.

Two classes will begin Latin each year, one in September and one in January. The division beginning in September will complete the First Latin Book by the end of the second term and will read selections from *Nepos* during the third term. The division beginning in January will complete the First Latin Book by the end of the year. This arrangement is made to benefit students who enter school after Congress assemblies. By earnest application members of the second division will be prepared to read *Cicero* the next year, and so complete the prescribed course in the time at their disposal. Students failing in the work of the first division may enter the second, provided it seems wise for them to continue the study.

III.

English.

A knowledge of English in its various branches is, to every English-speaking person, of prime importance: it is a matter of pleasure, of profit, of necessity. The study of this language is therefore made as broad and as thorough as school limitations permit and is required throughout every regular course.

The study of English falls naturally into three divisions: (1) Grammar, (2) Composition, (3) Literature. While each is made, so far as possible, to support and explain the others, yet each is maintained as a distinct branch of study.

Grammar is begun in the Preparatory year and is continued through the First year. Frequent exercises in parsing and analysis are given to fix thoroughly the principles of syntax. As the pupil's mind is at this age mainly receptive, his study is made formal and systematic. Grammar in its main principles is very briefly reviewed in the Second year, and is then supplemented by the careful study of the foundations of rhetoric. Daily exercises in spelling, required of all students, further supplement the study of Grammar.

Composition, so often neglected in schools, is strongly emphasized at the Academy. It is believed that the ability to write his mother tongue clearly, simply, and correctly is an essential part of every gentleman's education. With this in view, regular and systematic exercise in writing is required of all students. Subjects are assigned which demand thought. Clearness, naturalness, and order are urged upon students. Compositions are corrected in detail, on fixed principles, and the written criticism is

supplemented by individual oral instruction. Compositions must then be rewritten in accordance with these suggestions.

Literature is first studied in the First year. American Literature is taken up in the beginning, as being at once brief, attractive, and of near interest. While literary study for boys of this age is necessarily elementary, yet students are required not merely to read *about* authors, but also to read understandingly some of the author's works. In the Third year English Literature is studied. The course includes extensive reading of standard books, biographical study, and discussions of men, periods, and underlying principles. In the Fourth year students are prepared by their previous work for the close and accurate study of the masterpieces assigned in the College Requirements and for the intelligent appreciation of those masterpieces.

Supplementary English Reading.

PREPARATORY YEAR.

Kingsley	The Water Babies.
Irving	The Sketch Book.
Hawthorne	Tanglewood Tales.
Macaulay	Lays of Ancient Rome.
Lamb	Tales from Shakespeare.
Longfellow	The Courtship of Miles Standish.

FIRST YEAR.

Irving	The Alhambra.
Cooper	Deerslayer.
Hawthorne	The House of the Seven Gables.
Longfellow	Evangeline.
Poe	Selected Poems and Tales.
Whittier	Snow-bound.

SECOND YEAR.

Wallace	Ben-Hur.
Webster	Adams and Jefferson; First Bunker Hill Oration.
Lowell	The Vision of Sir Launfal.
Gray	Elegy.
Scott	Quentin Durward.
Blackmore	Lorna Doone.

THIRD YEAR.

Shakespeare.....	King Lear.
Milton.....	Paradise Lost, Book I.
Dryden.....	Alexander's Feast.
Goldsmith.....	The Vicar of Wakefield.
Shelley.....	The Cloud, The Skylark, West Wind.
Thackeray.....	Henry Esmond.
Dickens.....	Tale of Two Cities.
Tennyson.....	The Idylls of the King.
Ruskin.....	Selections.

FOURTH YEAR.

Inductive studies on the College Requirement list.

In 1897, Shakespeare's *The Merchant of Venice*, Burke's *Speech on Conciliation with America*, Scott's *Marmion*, and Macaulay's *Life of Samuel Johnson* form the list.

In 1898, Shakespeare's *Macbeth*, Burke's *Speech on Conciliation with America*, De Quincey's *The Flight of a Tartar Tribe*, and Tennyson's *The Princess*.

In 1899, Shakespeare's *Macbeth*, Milton's *Paradise Lost*, Books I and II, Burke's *Speech on Conciliation with America*, and Carlyle's *Essay on Burns*.

In addition to this, examinations will be given at intervals throughout the year on a course of general reading, also prescribed by the Colleges. The requirements for this portion of the work in English will be as follows:

In 1897 the books are Shakespeare's *As You Like It*, Defoe's *History of the Plague in London*, Irving's *Tales of a Traveller*, Hawthorne's *Twice-Told Tales*, Longfellow's *Evangeline*, and George Eliot's *Silas Marner*.

In 1898 they will be Milton's *Paradise Lost*, Books I and II, Pope's *Iliad*, Books I and XXII, The *Sir Roger de Coverley Papers* in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *Ancient Mariner*, Southey's *Life of Nelson*, Carlyle's *Essay on Burns*, Lowell's *The Vision of Sir Launfal*, and Hawthorne's *The House of the Seven Gables*.

In 1899, Dryden's *Palamon and Arcite*, Pope's *Iliad*, Books I, VI, XXII, and XXIV, The *Sir Roger de Coverley Papers* in the *Spectator*, Goldsmith's *The Vicar of Wakefield*, Coleridge's *The Ancient Mariner*, De Quincey's *The Flight of a Tartar Tribe*, Cooper's *The Last of the Mohicans*, Lowell's *The Vision of Sir Launfal*, Hawthorne's *The House of the Seven Gables*.

IV.

The Modern Languages.

A knowledge of French and German not only opens to the student the treasures of two of the greatest and richest of all literatures, but it broadens his mind by presenting facts and ideas from a point of view widely different from that of the English-speaking races. The ability to read French and German is absolutely necessary to the student of science or of English literature.

The chief object in the lower courses is to enable the student to translate readily at sight, and ultimately to be able to understand the language without the medium of English. To this end reading is begun very early in the course, and a large amount is read at sight during the year. Constant practice in pronunciation is given. Only the essentials of grammar are taught, the finer points of syntax being reserved for later years. Great stress, however, is laid upon thoroughness in these essential parts of grammar, as otherwise intelligent reading is impossible; but the grammatical work is always kept strictly subordinate to the main object of the course—ability to read at sight. The following books are used:

Third Year French: Edgren's French Grammar, part 1; Grandgent's French Composition, part 1; Rollins' French Reader; Daudet's *la dernière Classe*, *le Siège de Berlin*, etc.

Fourth Year French: Edgren's French Grammar, part 2; Grandgent's French Composition, part 2; Molière's *les Précieuses ridicules*; Halévy's *l'Abbé Constantin* and *un Mariage d'amour*; Mérimée's *Colomba*; de Vigny's *le Cuchet rouge*.

Third Year German: Joynes-Meissner Grammar, part 1; Hauff's *Das Käthchen*; Storm's *Immensee*; Schiller's *Der Neph als Onkel*.

Fourth Year German: Joynes-Meissner Grammar, part 2; Hillern's *Hohes als die Kirche*; Heine's *Die Harzreise*; Schiller's *Wilhelm Tell*; Goethe's *Hermann and Dorothea*; Schiller's *Maria Stuart*.

V.

Natural Science.

This department of instruction has been greatly enlarged. Desirable courses of study are given in Physical Geography, Physics, and Chemistry. A laboratory at the Academy affords all needed facilities for illustration and practice, and such attention is paid to these branches as their importance demands.

Physical Geography is a comprehensive subject, treating of the physical environment of man. It deals specifically with meteorology, physiography, and geology, touching also upon botany, zoology, anthropology, and astronomy. It requires of the student such maturity of mind that the work of the elementary schools in the subject cannot be accepted as an equivalent to this course. Physical Geography is a study of great disciplinary and practical value. It interprets physical phenomena and trains powers of observation, of scientific imagination, and of reasoning. Much valuable object study is made possible by ready access to the National Museum.



LABORATORY, COLUMBIAN ACADEMY

The course in Physics is divided and arranged according to the order followed in Avery's School Physics. Attention is given successively to Matter, Mechanics, Acoustics, Heat, Radiant Energy, Electricity, and Magnetism. Laboratory work in explanation and demonstration of all these subjects is done by the students, and carefully written note books are required. These note books are regularly corrected and revised by the instructor, and the student is expected to retain them for reference and future use. Energy is shown to be the underlying principle of the science. In Electricity and Magnetism the student is required to study the work and researches of such modern scientists as Hertz and Tesla.

In Chemistry a careful study is made of the principles of the science and of the principle inorganic elements and compounds, together with lessons and exercises in simple analysis. While the study is chiefly of inorganic substances, yet in the latter part of the course some attention is given to the simpler organic compounds. A text-book is employed in class work, but laboratory practice is relied on as of prime importance, and careful notes are made of all experiments performed.

VI.

History.

THE COURSES in this department have been considerably extended. American and English history are studied throughout the preparatory year. As important problems in government and civilization appear in their simplest form in the history of Greece, this is made the basis for the work of the regular course. The history of Rome is studied in the second year. A course in American history is also given in the second year, based on Fiske's Civil Government and Johnston's History of American Politics.

A comprehensive course in general history, with attention to its central influences and the progress of the nations in civilization, is given in the third year. History connects itself easily with English. Each is made to strengthen the other through the preparation of essays on historical themes.

The Cuthbert gold medal in History, founded in honor of the late Rev. J. H. Cuthbert, D. D., is given annually by Mr. Woolsey Aspinwall to the student who attaining the grade of "Excellent" in the work of any prescribed course in history, shall in addition complete a course of historical reading approved by the Dean, and pass the most satisfactory examination upon the same. Pupils who can take this honor work without detriment to other studies are encouraged to do so.

General Information.

Entrance Requirements.

Applicants for admission to the First year must be proficient in (a) Arithmetic, complete, (b) Elementary English Grammar, (c) Modern Political Geography, and (d) American History (Montgomery's or an equivalent). Candidates may present written statements of proficiency from schools of good standing or may receive an examination. Entrance examinations on the four subjects named will be given in the Academy building, 1335 H street, on Monday, September 20, 1897, beginning at nine o'clock a. m. Students who have completed the work of the Preparatory year may enter upon the First year without further examination. Any who fail in their First year requirements may enter upon the work of the Preparatory year without examination if it appear that they are prepared to do so. Students who enter after the Academic year begins will, upon examination, be assigned to such classes as they are fitted for.

Examinations.

There are three terms in the school year: the first ends at the Christmas holidays; the second at the Spring recess; the third in June. Examinations are given at the end of each term. A record of all work is preserved, and in determining scholastic standing, examinations are valued at one-third. The required pass-mark is 75 per cent., and no student will be permitted to enter upon the work of a higher class in any study until that of the lower has been satisfactorily completed.

Term Reports.

At the end of each term a report of the standing of the student is rendered, and in making up this report four degrees of merit are distinguished in scholarship and in conduct:

96-100	"EXCELLENT."
90-95	"VERY GOOD."
84-89	"GOOD."
75-83	"MODERATE."

Failure to attain 75 per cent, is marked "Deficient."

In addition to the separate marks given for standing in studies and for deportment a general grade is assigned which is an Average of Scholarship and Conduct. It is assigned on the basis of all marks given, including Deportment.

GRADE I is an average of "Excellent."

" II " " " " " " Very Good."

" III " " " " " " Good."

" IV " " " " " " Moderate."

Attendance.

Regularity in attendance upon the sessions of the school is of utmost importance. Habits of regularity are of great value in themselves, and they also condition all progress in studies. The advancement of the classes is constant and as rapid as practicable. A day lost cannot be easily retrieved.

An excuse, duly signed by the parent or guardian, is required for every case of absence or tardiness. Excuse-blanks designating the absence or tardiness are forwarded to the parent or guardian for signature, and absence or tardiness that remains unexcused at the expiration of seven days will be charged against the deportment of the student. All absence necessarily affects scholarship, but unexcused absence and tardiness also affect deportment.

As an incentive to regularity in attendance and excellence in deportment, gold medals are awarded annually by the Academy to those students who have been perfect in attendance and blameless in conduct during the entire school year.

Graduation.

Those completing any one of the three regular courses of study will receive a diploma. Special students who complete the prescribed work in three or more departments will receive a certificate of attainment in those studies. Students who enter upon any line of study will have due credit in that study for work satisfactorily completed in any school of like grade.

Scholarships.

A limited number of scholarships will be available for such students as need assistance. These scholarships may be assigned under certain explicit and invariable conditions. The conditions are: 1) that the student's

deportment be above censure, and (2) that he attain an average rank of at least 84 per cent. in his studies.

In addition to the above scholarships, the "Admiral Powell Endowment" provides a few free scholarships, which will be given (under the same conditions) to students preparing for admission to the United States Naval Academy at Annapolis.

Failure to satisfy the requirements of rank and deportment will constitute a forfeiture of the scholarship, and upon such forfeiture it will be withdrawn.

Declamation.

Three declamations (one each term) are required in the course of the year from each of the students. These declamations are rehearsed to an instructor, and toward the end of each term a selected number of them will be given before the school. Through the generosity of Mr. B. H. Warner two medals are awarded annually at the commencement for excellence in Declamation. These medals will be assigned to the two students having the highest records in declamation for the year.

Friday Lectures.

The course of Friday afternoon lectures instituted last year has been continued during the present session. These lectures have been given by professors in the University and by other friends of the Academy, and they have supplemented the regular courses of study by very instructive and entertaining lines of general culture. Among those who have addressed the students or have arranged to do so, are President Whitman, Dr. Otis T. Mason, Dr. Lee D. Lodge, Col. Weston Flint, J. O. Wilson, Esq., S. W. Woodward, Esq., Dr. C. C. Swisher, Thomas Robinson, M. D., Dean A. P. Montague, Professor Willis L. Moore, The Rev. Samuel H. Greene, Dean D. Kerfoot Shute, Dr. Edward B. Pollard, B. H. Warner, Esq.

Library and Reading-room.

A library and reading-room is provided, and is open at the close of each day's session for the use of the students. The library consists of about five hundred volumes of history, biography, and standard fiction. The reading-table is supplied with magazines and periodicals obtained by the students themselves through voluntary subscriptions. The distribution of books and the control and regulation of the reading-room are in the hands of an efficient committee chosen by the students.

The Hermesian Society.

The Hermesian Society is a literary and debating society, the object of which is to promote civic and literary interest among the students. It is composed of students from the two higher classes, and its regular meetings are held on Friday afternoons at the close of the School session. Two medals are given, through this society, annually. One is awarded by Mr. A. M. Sayre for excellence in Debate; another is given by the society for excellence in Composition.

Annual Prizes.

The regular prizes of the Academy consist of a gold medal for scholarship in each class.

Gold medals are given also to those students who have been excellent in deportment and against whom there is no record of absence or tardiness during the year.

The following special prizes are awarded:

The Roome gold medal, founded in honor of the late Dr. Edward Roome, for excellence in the Greek Language, given by Mrs. Lillian K. Roome.

The Cuthbert gold medal, founded in honor of the late Rev. J. H. Cuthbert, D. D., for excellence in History, given by Mr. Woolsey Aspinwall.

Two gold medals for excellence in Declamation during the year, given by Mr. B. H. Warner.

The Sayre gold medal for excellence in Debate, given by Mr. A. M. Sayre.

The Academy Building.

The Academy building, which is located at 1335 H street, was erected in 1883. It has three stories and a basement, with a front faced with pressed brick and North River bluestone. In the basement are the heating apparatus, janitor's room, and bicycle room. On the first floor are the reception room and three class-rooms; on the second floor, the study hall of 35 by 50 feet, the cloak-room, and the Dean's office; on the third floor, two class-rooms, an office, the library, and the Natural Science laboratory. The building is heated throughout by steam on the indirect-radiation system. Thorough ventilation is attained by the lofty rooms, the large windows, and in addition by four ventilating stacks, the draught in which is accelerated throughout their height by lines of steam-pipes.

Honor Roll.

(Session of 1895-'96.)

I.

For High Grade of Scholarship.

Fourth Year—Gold Medal: Manfredi F. Lanza.

Third Year—(No medal awarded.)

Second Year—Gold Medal: Weston Brown Flint.

First Year—Gold Medal: Davis Fonville Stakely.

Gold Medal for Excellence in French, given by Mr. George Neely Henning and awarded to Manfredi F. Lanza.

Gold Medal for Excellence in Debate, given by Mr. A. M. Sayre and awarded to J. E. Van Auker.

Gold Medal for Excellence in Composition, given by The Hermesian Society and awarded to J. E. Van Auker.

II.

For Punctuality and Deportment.

Gold Medal: Raymond Outwater.

Gold Medal: Amos Lawrence Hopkins.

III.

Graduating Class of 1896.

RAPHAEL NEWMAN GWYNN	General Course.
MANFREDI F. LANZA	Classical Course.
WILLIAM DUNLOP OWENS	General Course.
ARTHUR PRINCE SPEAR	Classical Course.
WILLIAM DENT STERRETT	General Course.

Students.

NAME	PATRON	ADDRESS.
Adkins, James C.	Mr. Milton T. Adkins	13 Tenn. Ave., N. E.
Artz, Harry Lloyd. ...	Mr. Samuel Artz	3140 Dumbarton Ave.
Bacon, William Elmer. ...	Mr. S. H. Bacon	1416 N St.
Bagby, Bathurst B. ...	Capt. A. F. Bagby.	Tappahannock, Va.
Barnes, Howard Russell. ...	Mr. Russell Barnes.	South Brookland, D. C.
Berry, Harold Lee.	Mr. Alfred H. Berry.	149 Middle St., Portland, Me.
Brann, Berlin Guy.	Dr. O. B. Brann.	1309 F St.
Bruin, James Oswald. ...	Mr. C. M. Bruin	Alexandria, Va.
Burdick, Z. Palmer. ...	Mr. E. A. Burdick.	3441 Brightwood Ave.
Burgdorf, Augustus J. ...	Mr. Augustus Burgdorf	1334 N. Y. Ave.
Burke, Frederick Beach. ...	Dr. T. W. Burke	800 L St.
Caffery, St. John L. ...	Hon. Donelson Caffery	2110 O St.
Clarke, Aubrey Lynn. ...	Mr. L. A. Clarke	1359 Roanoke St.
Cockerille, Julian T. ...	Mrs. Susan F. Cockerille.	Marshall, Va.
Cronwell, William N. ...	Mr. Z. W. Cronwell.	1314 V St.
Costis, J. B. Gregg, Jr. ...	Dr. J. B. Gregg Costis	110 East Capitol St.
Ecker, John Beard.	Mrs. John O. Evans.	1219 16th St.
Edeoner, Joseph H.	Mr. W. C. Johnson.	1502 13th St.
Fernow, Rossiter R.	Mr. Bernard E. Fernow	1620 22d St.
Flint, Weston Brown. ...	Col. Weston Flint.	1213 K St.
Fowler, Charles Daniel. ...	Mr. Samuel F. Fowler	2907 Dumbarton Ave.
Friedrich, Alexander*. ...	Dr. L. L. Friedrich.	329 East Capitol St.
Harrison, Wm. Evelyn. ...	Dr. George Byrd Harrison.	1223 Conn. Ave.
Hopkins, A. Lawrence. ...	Col. Archibald Hopkins.	1826 Mass. Ave.
Hopkins, James H., Jr. ...	Mr. James H. Hopkins	1524 18th St.
Kerr, Harry Hyland. ...	Dr. James Kerr.	1711 H St.
Kincheloe, John W.		Clifton Stat'n, Fairfax Co., Va.
Lodge, James Edwin. ...	Rev. James L. Lodge	Gaithersburg, Md.
Mareau, Herbert W. ...	Mr. Delzene Mareau	Brookland, D. C.

* Died, November, 1896.

NAME	PATRON	ADDRESS.
Matson, John Warren		624 22d St.
May, James William	Mr. J. W. May	209 N. Washington St., Alex., Va.
Mullin, Henry Julian	Mr. Z. T. Mullin	1340 21st St.
McNair, F. V., Jr.	Admiral F. V. McNair	"The Richmond."
McWhorter, Robert L.	Rev. Charles A. Stakely	1622 S St.
Naylor, Charles Calvin	Rev. N. C. Naylor	1367 F St. N. E.
North, James	Mr. C. C. North	1409 N St.
Outwater, Addison	Rev. Theron Outwater	1352 B St. S. W.
Outwater, Raymond	Rev. Theron Outwater	1352 B St. S. W.
Piper, Ernest Low	Mr. F. A. Piper	213 D St.
Porter, Bennett L.	Mr. M. G. Porter	1538 I St.
Portner, Paul Valer	Mr. Robert Portner	1104 Vt. Ave.
Reed, Frank Elisha	Mr. A. A. Reed	238 N. Capitol St.
Robbins, Wilfred F., Jr.	Mr. Wilfred F. Robbins	Brookland, D. C.
Sherman, John, Jr.	Mr. John Sherman	Cleveland Park.
Solger, Frederick R.	Mrs. Florence B. Solger	504 M St.
Stakely, Davis Fonville	Rev. Charles A. Stakely	1622 S St.
Sterrett, Douglas B.	Rev. J. McBride Sterrett	The Columbian University.
Taylor, Andrew Bryson	Dr. J. Y. Taylor, U. S. N.	1727 Q St.
Wignall, John	Mrs. R. R. West	Brookland, D. C.
Willmuth, John Paul	Mrs. J. A. H. Willmuth	1008 Gt. Ave., S. E.
Woodward, Walter L.	Mr. S. W. Woodward	2015 Wyoming Ave.
Zerega, Gasquet di	Capt. A. L. B. di Zerega	2114 O St.

Students in the Academy 52.

TERMS OF ADMISSION TO THE COLUMBIAN COLLEGE.

- I. Candidates for admission to the course leading to the degree of Bachelor of Arts will be examined in English, Greek, Latin, French or German, Algebra, and Plane Geometry.
- II. Candidates for admission to the course leading to the degree of Bachelor of Science will be examined in English, Algebra, Plane Geometry, Solid Geometry, Physics or Chemistry, and in two languages, one of which must be French or German.
- III. Candidates for admission in English must be able to answer questions upon the elementary principles of practical rhetoric and must show familiarity with the works enumerated in the College requirement list.
- IV. Candidates for admission in Greek will be examined in Goodwin's or Hadley's Greek Grammar, Goodwin's Greek Reader or Xenophon's *Anabasis* (first four books), first three books of Homer's *Iliad*, Jones's Greek Prose Composition, and Myers's or Schmitz's History of Greece.
- V. Candidates for admission in Latin will be examined in Harkness's Latin Grammar, four books of Caesar's *Commentaries*, six of Cicero's Orationes, six books of the *Æneid* of Vergil, Sallust's *Conspiracy of Catiline*, in parts, Latin Composition, and Allen's, Myers's, or Pennell's History of Rome.
- VI. Candidates for admission in French will be examined in the elements of Grammar and the ability to read, at sight, easy prose.
- VII. Candidates for admission in German will be examined in the elements of Grammar and the ability to read, at sight, easy prose.
- VIII. Candidates for admission in Mathematics will be examined in Algebra (through Quadratic Equations) and in Plane Geometry; and in Solid Geometry for the degree of B. S.
- IX. Candidates for admission in Physics will be examined in Elementary Physics. Carhart and Chute's Physics, Avery's School Physics, Gage's Introduction to Physical Science, or Hall and Bergen's Text-book of Physics will give suitable preparation.
Both text-book study and laboratory work will be expected.
- X. Candidates for admission in Chemistry will be examined in Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation.
- XI. Candidates may be excused from examination in some or all of the required subjects by presenting certificates from The Columbian Academy.

Expenses.

Tuition for the Scholastic year, \$100. Students received under the former rates of tuition may continue in the Academy at the same charge.

Students taking Physics or Chemistry will be charged a fee of \$10 to cover cost of materials and breakage in laboratory practice.

All bills must be paid half yearly in advance, the first half due in September, the second half February 1. Bills are payable to

S. W. WOODWARD,

Acting Treasurer of The Columbian University.

To Patrons.

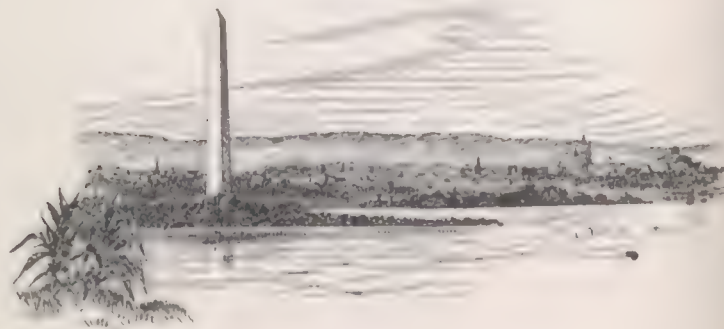
The Dean will be at the Academy, 1335 H street, northwest, from the 16th to the 18th of September, inclusive, from 10 o'clock a. m. to 1 o'clock p. m., to meet patrons and answer inquiries concerning the School. Examinations for entrance to the First year will be given at the Academy on Monday, September 20, 1897, beginning at 9 o'clock a. m. The Academic year begins on Tuesday, the 21st of September.

Patrons and friends are invited to visit the Academy and inspect the work of the class-room. Catalogues and full information will be sent to any address on application to

WILLIAM ALLEN WILBUR,

Dean of the Academy,

1335 H Street, Northwest.



532926



TREASURER'S REPORT

ON THE

PROPERTY AND FINANCES

OF

THE COLUMBIAN UNIVERSITY

FOR THE

FISCAL YEAR ENDING MAY 31, 1897.



WASHINGTON, D. C.,
JUDITH & DETAILERS, PRINTERS,
1897.



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1897



ANNUAL REPORT OF THE TREASURER.

SCHEDULE "A" is a Detailed Statement of Receipts and Disbursements.

" "B," Statement of the Receipts, Disbursements, and Investments of the Scholarship Funds and Sinking Fund—Medical Faculty Note, Corcoran Endowment Fund, and Miscellaneous Investments.

" "C," Liabilities.

" "D," Description and Assessed Valuation of Real Estate.

" "E," Table of Insurance.

Appended to the report is a detailed statement of the financial operations of the Medical, Dental, and Veterinary Departments of the Columbian University from May 15, 1896, to May 11, 1897.

All of which is respectfully submitted.

S. W. WOODWARD,
Acting Treasurer.

WASHINGTON, D. C., *June 1, 1897.*

SCHEDULE "A"

Detailed Statement of Receipts and Disbursements

ACADEMIC DEPARTMENT.

College		Receipts
Tuition		\$5,178 25
Diplomas		50 00
Fees of E. B. Peckard, Concordia Scientific School		300 93
		<u>\$5,529 18</u>
Academy		
Tuition		\$1,030 50
Rents Admiral Powell property		1,800 00
		<u>2,830 50</u>
		<u>\$8,359 68</u>

Note.—Tuition due the College, \$244 70; Tuition due the Academy, \$82 60.

DISBURSEMENTS

Salaries	
Professor A. P. Montague, in full to May 31, 1897	\$1,800 00
Professor A. P. Montague, Deac., in full to May 31, 1897	199 92
Professor A. J. Huntington, in full to May 31, 1897	1,800 00
Professor J. H. Gore, in full to May 31, 1897	1,800 00
Professor H. L. Hodgkins, in full to May 31, 1897	1,800 00
Professor L. D. Lodge, in full to May 31, 1897	1,800 00
Professor J. M. Stearns, in full to May 31, 1897	1,800 00
Professor C. E. Munroe, in full to May 31, 1897	1,800 00
Professor H. Schoenfeld, in full to May 31, 1897	711 12
Professor E. B. Peckard, in full to May 31, 1897	1,000 00
Professor M. M. Ramsey, in full to May 31, 1897	666 64
Professor C. C. Swisher, in full to May 31, 1897	666 64
Professor F. Freyhofel, in full to May 31, 1897	100 00
Professor G. J. Smith, in full to May 31, 1897	500 00
Professor W. A. Wilbur, in full to May 31, 1897	1,800 00

Instructor H. R. Pyne in full to May 31, 1897	\$799 92
Instructor G. N. Henning, in full to May 31, 1897	799 92
Instructor O. W. Anthony in full to May 31, 1897	533 28
Instructor F. P. Holgood, Jr. in full to May 31, 1897	533 28
Instructor P. A. Steele, in full to May 31, 1897	50 00
Instructor H. G. Hodgkins	266 64
Instructor E. Farquhar	44 48

Janitor's wages \$22,435 12

Walter Honesty 315 00

Repairs—Academy

John Motzinger, Natural Science Laboratory, etc	\$519 62
Zelous & Company, repairs to boiler	21 69
Daelson & Hodgson, painting roof	14 18
S. J. Spearling, repairs to tank	3 25
A. J. Scott, new pins in battery	1 00
R. E. Prosser, repairing large gong	1 00
Wm. O'Donnell & Son, repairing roof	3 00

\$563 74

Powell House

J. B. Henderson, papering room and painting cornice 22 50

586 24

Insurance

Academy	\$40 00
Powell House	37 50

77 50

Water rents

Academy to April 1, 1897 17 63

Taxes

Powell House, first half year, ending June 30, 1897 152 18

Gas

Academy 6 16

Advertising—

College

The Evening Star Newspaper Company	\$74 03
The Washington Post Company	65 40
Foreign Mission Journal	5 00
	\$144 43

Academy:

The Evening Star Newspaper Company	\$ 39 67		
The Washington Post Company	36 50		
		\$76 17	\$220 60

Printing—

College:

P. A. Steele, engrossing diplomas	\$3 60		
E. A. Wright, invitations	40 26		
Judd & Detweiler	84 13		
D. W. Gregory, diplomas	12 00		
		\$136 99	

Academy:

Judd & Detweiler	\$174 87		
E. A. Wright, invitations	41 66		
		216 53	\$356 52

Stationery—

College:

William Ballantyne & Sons		\$83 30	
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Academy:

William Ballantyne & Sons	\$31 49		
E. A. Wright	9 20		
		40 69	74 98

Fuel—

Academy:

J. Maury Dove			134 30
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Laboratories—

College:

Chemical Laboratory, chemicals	\$102 02		
Physical Laboratory, materials and chemicals	33 94		
Physical Laboratory, equipment	167 09		
		\$303 05	

Academy:

Chemicals		159 95	462 90
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Sundries

College

Metzerott Music Company, rent of hall for commencement	\$67 50
Carl Petersen, medals	47 00
Louis Weber, music for commencement	42 00
J. H. Small & Sons, floral decorations for commencement	12 50
M. G. Copeland & Co., decorating hall for commencement	12 50
J. H. Green, livery bill for commencement	4 00
George Shilling, repairing transit and level	6 00
F. A. Schmidt, materials for surveying	26 50
J. E. Kieffer, treasurer, annual dues to Association of Colleges Middle States and Maryland	5 00
Boyd's Directory Company, city directory	5 00
A. P. Montague, traveling expenses as delegate to convention of College Association	25 00
Mary Fasker Turner, tuition refunded, not in attendance	17 50
B. P. Murray, lantern slides for Professor Gore's lecture	5 00
	<hr/> \$275 50

Academy:

Metzerott Music Company, rent of hall for commencement	\$67 50
Carl Petersen, medals for commencement	27 25
Louis Weber, music for commencement	42 00
J. H. Small & Sons, floral decorations for commencement	25 00
M. G. Copeland & Co., decorating hall for commencement	25 00
Boyd's Directory Company, city directory	5 00
W. B. Moses & Sons, carpets and furniture	113 95
C. W. Holmes, postage stamps	15 00
Great Falls Ice Co., ice	18 70
James Nolan, cleaning closets and sewer	2 00
C. C. Bryan, janitor's supplies	1 10
J. S. Wimsatt & Co., removing debris	8 75

Nelson Rollins, tuition refunded on account of illness	\$20 00	
B. E. Fernow, laboratory fee refunded	5 00	
Mrs. Jno. O. Evans, J. B. Baker's laboratory fee refunded	5 00	
John Wignall, laboratory fee refunded	5 00	
Dr. L. L. Friedrich, son's tuition refunded on account of death	25 00	
		\$41 25
		<u>\$23,496 35</u>

LAW DEPARTMENT.

RECEIPTS.

Tuition	
Regular	\$11,030 00
Post graduate	2,190 00
	<u>\$13,220 00</u>
Diplomas	1,000 00
Sale of stationery and thesis paper	5 25
A. T. Britten, prizes for 1896 '96 and 1896 '97	100 00
M. M. Parker, prize for 1896 '96	100 00
	<u>\$18,025 25</u>

DISBURSEMENTS.

Salaries:

Professor W. S. Cox, in full to May 31, 1897	\$3,000 00
Professor W. A. Maury, in full to May 31, 1897	3,000 00
Professor J. M. Harlan, in full to May 31, 1897	3,000 00
Professor W. G. Johnson, in full to May 31, 1897	1,000 00
Professor D. J. Brewer, in full to May 31, 1897	500 00
Professor M. Church	350 00
Professor L. D. Lodge	300 00
Professor T. L. Jeffords	250 00
	<u>\$14,000 00</u>

Lighting:

United States Electric Lighting Company	377 75
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Advertising:

The Evening Star Newspaper Company.....	\$164 63	
The Washington Post Company.....	148 95	
The Nation.....	15 75	
West Publishing Company.....	100 00	
		\$429 33

Printing:

P. A. Steele, engrossing diplomas.....	\$51 90	
Judd & Detweiler.....	134 60	
E. A. Wright, invitations.....	399 00	
D. W. Gregory, diplomas.....	167 00	
		752 50

Stationery:

Wm. Ballantyne & Sons.....	68 77	
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Prizes:

W. H. Coleman, First Essay prize.....	\$40 00	
R. E. Wiley, Second Essay prize.....	30 00	
L. J. Mather, Third Essay prize.....	20 00	
W. A. Owen, Parker prize.....	100 00	
E. H. May, Britton prize.....	50 00	
		240 00

Library:

Baercoft-Whitney Company:

American State Reports, vols. 48-53.....	\$24 00	
Church's Digest for vols. 25-48.....	4 00	
		\$28 00

W. H. Lowdermilk & Co.:

Story Equity Jurisprudence, 2 vols.....	\$12 00	
Brantley's Digest, vol. 1.....	10 00	
		22 00

West Publishing Company:

Federal Cases, vols. 24-27.....	\$40 00	
Federal Reports, vol. 75.....	3 50	
Federal Reports, vols. 48-74; Federal		
Reports Digest, vols. 46-60 special.....	87 00	
American Digest, 1887-1896.....	25 50	
		156 00

Edward Thompson Company:

American and English Encyclopedia of Law,		
vols. 30 and 31.....	6 00	

W. H. Morrison's Son:		
Massachusetts Reports, vols. 165 and 166.	\$6 50	
Remick, Schilling Company:		
American Negligence Cases, vols. 3, 4, and 5.	16 50	
John Byrne & Co.:		
Beach's Modern Law of Contracts.	12 00	
M. Curlander:		
Maryland Reports, vols. 82 and 83.	\$8 00	
District of Columbia Appeals Reports,		
vols. 5, 6, and 7.	16 00	
	<u>24 00</u>	\$271 00
Sundries:		
W. H. Rapley, rent of theatre, etc., for commence-	\$111 00	
ment.		
United States Marine Band, music for commence-	66 00	
ment.		
J. H. Small & Sons, floral decorations for com-	90 00	
mencement.		
M. G. Copeland, decorations for commencement.	50 00	
J. H. Gheen, livery bill for commencement.	8 00	
H. A. Sautter, hat boxes for commencement.	10 00	
W. B. Moses & Sons, use of chairs for commence-		
ment.	13 50	
E. A. de Schweinitz, tuition paid by R. Kleiner,		
transferred to Medical School.	10 00	
S. C. Ford, acting Librarian, tuition refunded.	10 00	
C. W. Holmes, expressage.	\$1 00	
C. W. Holmes, stamps.	50 00	
	<u>54 00</u>	122 50
		<u>\$44,161 82</u>

SCIENTIFIC DEPARTMENT.

RECEIPTS.

Tuition	\$9,496 77
Diplomas	50 00
Deposits returnable to students	153 12
Laboratory materials	195 46
Breakage	1 65
E. G. Portner, for purchase of chemical apparatus	115 09
	<u>\$10,292 09</u>

DISBURSEMENTS.

Salaries.

Professor C. E. Munroe	\$1,449 22
Professor A. P. Montague	262 86
Professor H. L. Hodgkins	997 22
Professor L. D. Lodge	87 20
Professor T. N. Gill	28 41
Professor C. Albee	22 62
Professor H. Schoenfeld	317 68
Professor H. King	391 30
Professor G. P. Merrill	265 27
Professor A. W. Greely	11 38
Professor A. E. Craven	130 41
Professor L. Ametis	52 26
Professor E. Farquhar	105 32
Professor E. A. Wolf, Jr.	392 41
Professor E. Lamson Scribner	61 77
Professor J. C. Hornblower	74 33
Professor Hans Zepke	540 75
Professor F. Freyhold	378 47
Professor M. M. Ramsey	478 46
Professor H. L. Rice	99 58
Professor T. Friebs	113 60
	<u>\$6,237 42</u>

Repairs.

Charles Rittershofer, repairing and keying locks to desks in Chemical Laboratory	\$10 00
John McGregor, carpenter work	42 45
J. I. Atchison, plumbing in laboratory	10 60
	<u>32 45</u>

Lighting:

Washington Gas Light Company	\$214 99	
United States Electric Lighting Company.	40 46	\$255 45

Advertising:

Scientific Publishing Company	\$96 08	
Evening Star Newspaper Company	119 00	
Washington Post Company	96 70	\$311 78

Printing:

E. A. Wright, invitations	\$40 25	
Judd & Detweiler	35 85	
B. S. Adams, cards and envelopes—lecture of Pro- fessor Zopke	7 50	\$83 60

Stationery:

Wm. Ballantyne & Sons	\$36 35	
E. A. Wright	4 05	40 40

Fuel:

J. Maury Dove		29 70
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Laboratories

Concortan:

Bullock & Crenshaw, supplies	\$408 00	
Z. D. Gilman, supplies	13 89	
Eimer & Amend, chemicals	109 39	\$531 28

Physical:

Ziegler Electric Company, apparatus	\$33 59	
L. E. Knott Apparatus Company	6 35	
Weston Electric Instrument Company.	109 55	149 49

Mineralogical:

Eimer & Amend, chemicals	\$40 65	
Eimer & Amend, repairs	2 92	13 57

Assay:

Richards & Co., materials	\$81 16	
J. B. Lambie, materials	1 97	86 13

Sundries

J. H. Small & Sons, floral decorations for commencement	\$12 50
M. G. Copeland & Co., decorating hall for commencement	12 50
Louis Amateis, administrator, auction effects of Professor Fava, deceased	65 00
Professor Hans Zepke, materials purchased in Europe for Mechanical Engineering Department	32 00
Columbia College, E. B. Pollard's salary in Scientific School	300 93
Boyd's Directory Company, city directory	5 00
C. A. Muldman, lights for Corcoran School	36 00
Jos. Roy, agent, lights for Corcoran School	2 00
C. W. Holmes, freight and expressage	14 68
George W. Knox Express Company, freight and expressage	6 32
F. W. Brown, tuition refunded, changed course	32 50
R. M. Nalle, tuition refunded on account of sickness	11 25
	<u>\$530 69</u>

Deposits returned

E. M. Chase	\$24 11
J. R. Hamilton	21 27
J. B. Hull	7 66
J. W. Purman	20 00
J. S. Pendleton	19 57
C. R. Ely	21 72
Mrs. M. M. Raborg	21 28
J. O. Hargrove	25 00
F. E. Phelps	36 55
V. L. Mason	8 02
H. C. Workman	17 30
M. W. Twitchell	8 30
W. E. Hillyer	23 32
Miss A. E. Matthewson	24 20
	<u>278 30</u>
	<u>\$8,580 26</u>

GRADUATE SCHOOL.

RECEIPTS.

Tuition	\$837 50
Matriculation fees	130 00
Laboratory material	66 25
Deposits returnable to students	26 35
Diplomas	50 00
Sales of stationery	3 60
	<u>\$1,113 70</u>

DISBURSEMENTS.

Salaries:

Professor C. E. Munroe	\$88 76
Professor H. L. Hodgkins	5 62
Professor L. D. Lodge	16 87
Professor H. Schoenfeld	11 25
Professor G. P. Merrill	37 80
Professor T. N. Gill	8 43
	<u>\$168 73</u>

Advertising:

The Evening Star Newspaper Company	\$35 51
The Washington Post Company	29 50
	<u>65 01</u>

Printing:

F. A. Steele, engrossing diplomas	\$5 40
Judd & Detweiler	148 85
E. A. Wright, invitations	29 95
D. W. Gregory, diplomas	20 00
	<u>204 15</u>

Laboratory:

E. P. Dewey, supplies	75 66
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Sundries:

The Shoreham Hotel, hotel bill of Dr. R. S. MacArthur	\$3 00
G. T. Budd & Co., lunch for jury experts	20 00
E. M. Van Harlingen, matriculation fee refunded, not in attendance	10 00
G. W. Holmes, expressage	2 70
	<u>35 70</u>

\$565 46

SUMMER SCHOOL.

RECEIPTS

Tuition	\$705 00	
Material	17 50	
		<u>\$722 50</u>

DISBURSEMENTS.

Salaries

Professor A. E. Craven	\$16 50	
Professor E. A. Wolff	37 20	
Professor H. Schoenfeld	48 10	
Instructor P. Ehrenan	87 21	
Instructor P. Gerry	15 04	
Instructor H. G. Hodgkins	109 80	
Instructor M. M. Ramsey	40 31	
Instructor H. R. Pyne	35 46	
Instructor E. H. Meyer	22 52	
Instructor E. H. Jackson	84 90	
Instructor A. E. Flint	12 49	
Instructor E. A. Playter	3 75	
		<u>\$513 40</u>

Advertising:

Evening Star Newspaper Company	\$14 25	
Washington Post Company	48 30	
		<u>62 55</u>

Printing:

Judd & Detweiler	84 38	
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Lighting:

Washington Gas Light Company	\$5 88	
United States Electric Lighting Company	3 03	
		<u>6 91</u>

Laboratory:

E. A. Tschiffely & Company, chemicals	\$16 28	
W. S. Thompson, chemicals	4 55	
		<u>20 83</u>

Sundries:

Great Falls Ice Company, ice	\$1 30	
H. L. Hodgkins, director, postage	18 50	
Miss Lillian Long, tuition refunded; not in attendance	10 00	
John Davies, tuition refunded; not in attendance	10 00	
		\$39 80
		\$727 87

GENERAL EXPENSE ACCOUNT.

Balance on hand per last report, May 31, 1896 (includes balances from every school)	\$5,206 76	
Less error in Coreoran School in report for several years	9 00	
		\$5,197 76

RECEIPTS.

Sundries:

Subscriptions to Guarantee fund	\$17,751 50	
Borrowed from Riggs National Bank	2,000 00	
Compromise of Symmes legacy	1,500 00	
Medical Faculty: Note of July 2, 1895	400 00	
Sinking Fund payment	250 00	
Third note of 10, dated Oct. 24, 1893.	500 00	
Sale of stationery	10 23	
W. H. Lowdermilk, sale of 9 copies Behring Sea, by Dr. J. C. Welling	1 62	
Luttrell & Fox, note in settlement of Martin defalcation	4,000 00	
		26,413 35

Rents:

No. 222 Third street N. W., Mrs. C. B. Cutler	\$715 00	
1707 I street, C. W. Needham	283 33	
Lot 1, Square south of 12, Littlefield & Alvord	250 00	
Law Building: W. V. R. Berry	\$172 00	
F. T. Browning	165 00	
H. W. Garnett	420 00	
A. E. L. Keese	28 00	
R. B. Lewis	200 00	
W. H. Smith	121 00	

Enoch Totten	\$360 00
Mackall & Maedel	60 00
	<u>\$1,526 00</u>

Interest

\$2,774 33

Notes:

Corcoran Endowment fund	\$7,052 50
Elton fund	450 00
Mary Lowell Stone fund	120 00
Fitch fund	144 00
Kendall fund	292 50
Miscellaneous	296 47
	<u>\$8,355 47</u>

Bonds:

Church of the Covenant	39 28
	<u>8,394 75</u>

Dividends on stocks:

Quinsigamond National Bank	\$30 00
Pennsylvania Telephone Company	20 00
	<u>50 00</u>
	<u>\$42,830 19</u>

DISBURSEMENTS.

Salaries:

B. L. Whitman, President, in full to May 31, 1897.	\$4,999 92
R. H. Martin, Secretary and Treasurer, in full to February 28, 1897	1,499 94
C. W. Holmes, book-keeper, in full to May 31, 1897.	600 00
R. O. Deyer, acting librarian	125 00
Fannie M. Allen, stenographer, in full to May 31, 1897.	395 00
S. C. Ford, acting librarian, for school year 1896-'97	100 00
	<u>\$7,719 86</u>

Janitors' wages:

W. L. Lewis, in full to May 31, 1897.	\$540 00
R. T. Harris, in full to May 31, 1897.	332 50
H. Brown, in full to May 31, 1897	360 00
William Parker, fireman.	20 00
H. Randolph, fireman	30 00
E. Toliver, attendant in cloak-room.	144 00
	<u>1,435 50</u>

Repairs and materials:

J. V. Burket, repairs to electric lights	\$1 75	
John McGregor, fixtures for Treasurer's office, water meters for University Building, Academy, Law Building, girdler rods to support ceiling of University hall, etc.	1,048 35	
Coomes & Co., pointing up President's room and glazing	12 00	
Zellers & Co., repairs to boiler	42 00	
E. Devlin, repairing lock to Law building	1 25	
A. J. Scott, electrical repairs	3 50	
E. Amateis & Co., painting President's office and reception room	60 00	
Dodson & Hodgson, painting and repairing roof of Academy Building	24 50	
S. J. Spearing, repairing tank, University Building	6 50	
		\$1,199 85

Insurance.

University Building	\$100 00	
Furniture, etc., University Building	25 00	
Law Building	24 00	
Cutler House, 222 Third street	15 00	
1308 Sixteenth street	25 00	189 00

Water rents:

University Building	\$23 81	
Academy Building	1 20	
Law Building	12 22	
Cutler House	63 36	100 59

Taxes—Real estate:

First half of tax for fiscal year ending June 30, 1897, on lots in squares south of 12, 13, 16, and 23, and in squares west of 23, 83, 87, 88, and 89 (unimproved); south half of 13 and all of 14, square 489 (Law Building); 42 and 43, reservation 10 (222 Third street northwest).	\$475 58
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Taxes - Personal :

Year ending June 30, 1896	\$24 00	
10 per cent. penalty on same	2 40	
Year ending June 30, 1897	24 00	
	<u>\$50 40</u>	\$525 98

Gas and electric lighting:

University Building	\$459 97	
Law Building	74 43	
	<u></u>	534 40

Advertising:

The Evening Star Newspaper Company	\$25 52	
The Washington Post Company	36 29	
U. S. Naval Institute	12 50	
	<u></u>	74 22

Printing:

Judd & Detweiler	\$331 84	
D. W. Gregory	3 75	
	<u></u>	335 59

Stationery:

William Ballantyne & Sons	\$55 96	
Easton & Rupp	70	
E. A. Wright	117 06	
	<u></u>	173 71

Fuel

J. Maury Dove		569 75
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Library:

Biblical Recorder - subscription		2 00
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Postage:

Charles W. Holmes		322 50
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Expressage, freights, telegrams:

Charles W. Holmes		15 06
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Interest:

Bell & Co	\$200 83	
American Security and Trust Company	225 00	
Riggs National Bank	618 54	
Etch, Fox & Brown	200 00	
	<u></u>	1,365 05

Sundries.

Bell & Co., note of Lee Davis Lodge	\$500 00
L. H. & J. M. Schneider, moving safes, etc	8 00
J. S. Wimsatt & Co., hauling debris	35 50
Wyckoff, Seamans & Benedict, repairing typewriter	5 30
Royce & Marcen, rent of Gardner clock to June 30, 1897	20 00
W. B. Moses & Sons, repairing carpets, new awnings for Treasurer's office	22 58
W. H. Veerhoff, framing picture of Dr. Greene	4 25
James B. Lambie, janitor's supplies	8 77
C. C. Bryan, janitor's supplies	24 93
Great Falls Ice Company, ice for University Building	54 56
W. A. Boyd, city directories	10 00
Contributions to Columbian "Call"	135 00
Contributions to Senior Law Class, class book	25 00
F. A. Barbour, balancing books and making Treasurer's report	25 00
Metzerott Music Company, balance on piano	231 25
W. H. Cooper, copy press books, etc	7 85
Cottrell & Leonard, cap and gown for President Whitman	70 50
G. T. Budd & Co., lunch for corporation	20 00
Chesapeake and Potomac Telephone Company, exchange rental to June 30, 1897	\$100 00
Use of long distance telephone	4 50
	101 50
Riggs National Bank, curtailment of notes	7,000 00
Columbian University Endowment Fund loan.	741 08
J. U. Burket, electric lights for office	22 50
A. P. Montague, traveling expenses as delegate to Association of Colleges	23 50
Instantaneous Fire Alarm Company, rent of box to June 30, 1897	10 00
Office Specialty Manufacturing Company:	
1 card index cabinet, with cards.	\$40 40
1 card index cabinet, with guides.	23 00
	<u>63 40</u>

Library bureau, index cards, and guides	\$19 88
S. J. Spearing, water meter and plumbing at Cutler house	61 13
J. H. Corning, grate for President's room	41 10
National Safe Deposit Savings and Trust Company, rent of box to May 26, 1896	35 85
Woodward & Lothrop, supplies for President's room	3 15
Easton & Rupp, check protector	1 00
Koetzner Bros., polishing President's floors and one floor polisher	11 50
W. A. De Cindry, examining former Treasurer's accounts	200 00
M. Joyce Engraving Company, cut of University building	2 00
	<hr/> \$9,546 08
	<hr/> \$24,309 72

Actual Receipts and Disbursements on Fish Report for the Fiscal Year Ending May 31, 1897.

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SCHEDULE "B."

MARY LOWELL STONE SCHOLARSHIP FUND.

Receipts:

Annual interest to December 29, 1896, on note of John McGregor	\$120 00
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Disbursements:

Transferred to the General Fund.	120 00
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MARY LOWELL STONE SCHOLARSHIP FUND.

Investment.

Invested in a \$5,000 note of John McGregor, dated June 29, 1893, payable in five years, at 6 per cent per annum, payable semi annually, secured by deed of trust on subplot 18, square 757	\$2,000 00
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(Balance of this \$5,000 note owned by the Kendall Fund.)

Interest paid to December 29, 1896.

ELTON FUND.

Cash on hand as per last report	\$50 64
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Receipts:

Eighteen months' interest to March 23, 1897, on note of Roberta K. E. Ober	
treasurer for \$5,000	150 00
	<u>\$500 64</u>

Disbursements:

Transferred to the General Fund	150 00
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Cash on hand	<u>\$50 64</u>
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ELTON FUND.

Investment:

Note of Roberta K. E. Obertentler and William G. Obertentler, dated March 23, 1894, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 2, square 245. \$5,000 00

Time of payment extended for three years from March 23, 1897.

Interest paid to March 23, 1897.

WILLIE E. FITCH FUND.

Balance on hand as per last report \$132 72

Receipts:

Interest on bank deposit. 3 19

\$135 91

Two years' interest to March 26, 1897, on note of Josiah McLachlen, trustee, for \$1,200. 144 00

\$279 91

Disbursements:

Transferred to General Fund. 144 00

Cash in bank. \$135 91

WILLIE E. FITCH FUND.

Investment:

Note of Josiah W. McLachlen, trustee of the Security Investment Company, dated September 26, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 78, square 1008. \$1,200 00

Title transferred to Mutual Real Estate Company.

Time of payment extended for three years from September 26, 1894.

Interest paid to March 26, 1897.

KENDALL FUND.

Receipts.

Annual interest to December 29, 1896, on note of John McGregor	\$180 00	
Annual interest to May 5, 1897, on note of J. W. Hogg for \$1,875	112 50	\$292 50

Disbursements.

Transferred to General Fund	292 50	
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KENDALL FUND.

Investments.

Note of J. W. Hogg assumed by J. T. Power, now deceased, dated March 31, 1883, on or before five years, at 4 per cent. Secured on lot 31, south grounds, Columbian University, 1431 Chapin street	\$1,875 00	
Note extended for five years from May 5, 1892, at 6 per cent.		
Time of payment extended for five years from May 5, 1897.		
Interest paid to May 5, 1897.		
Invested in a \$5,000 note of John McGregor, dated June 29, 1893, payable in five years, at 6 per cent. per annum, payable semi-annually, secured by deed of trust on subplot 18, square 757	5,000 00	\$4,875 00

Balance of this \$5,000 note owned by the Mary Lowell Stone Scholarship Fund.

Interest paid to December 29, 1896.

SINKING FUND—MEDICAL FACULTY NOTE.

Balance on hand as per last report	\$0 80
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Receipts.

Sinking Fund payment July 11, 1896	250 00
Sale of three bonds, Nos. 46, 47, and 48, each \$100, March 17, 1897	300 00
Interest on same January 1, 1896, to March 17, 1897	18 21
	<u>\$568 01</u>

Disbursements:

Transferred to General Fund.	\$265 00
Cash on hand May 31, 1897	\$304 01

SINKING FUND—MEDICAL FACULTY NOTE.

Investments:

No investments.

There have been nine annual payments of \$250 each, amounting to \$2,250, which is a liability of the General Fund to this fund.

General Fund to this fund.	\$2,250 00
Loan to the General Fund.	15 00
	<u>\$2,265 00</u>

By the terms of the Medical Faculty note for \$10,000 the annual payments of \$250 to the Sinking Fund were to draw interest from the time of payment.

CORCORAN ENDOWMENT FUND.

Balance on hand as per printed report.	\$458 92
Additional cash in bank not reported.	3,200 00

Balance actual, as per bank book, May 31,

1896.	\$3,658 92
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Receipts:

Settlement of Symmes legacy.	1,500 00
Loan from the General Fund.	741 08
Note of Geo. S. Rider, paid March 2, 1897.	1,600 00
Note of Andrew Wilson, paid March 2, 1897.	2,000 00
Note of Clara M. Houghton, paid March 8, 1897.	6,500 00
Sale of four Church of the Covenant bonds, Nos. 32 to 35, each \$100, March 17, 1897.	400 00
Interest on notes.	7,052 50
Interest on bonds.	24 28
	<u>\$23,476 78</u>

Disbursements:

Check on Riggs Bank to Robert H. Martin	\$3,200 00
Loan to Medical Faculty, July 7, 1896	1,200 00
Symmes legacy transferred to General Fund.	1,500 00
Loan to J. B. Winnet, March 8, 1897	1,500 00
Loan to J. H. Lane, March 8, 1897	2,400 00
Loan to J. B. Gregg Custis, March 8, 1897.	6,000 00
Interest on notes, transferred to General Fund.	7,052 50
Interest on bonds transferred to General Fund.	24 28
	<hr/> \$22,876 78
Cash balance on hand May 31, 1897	<hr/> \$600 00

Nature of investment.	Name of maker.	Date.	Time	Rate
Bonds.	Church of the Covenant	May 18, 1887	10 years	5
Note.	W. E. Earle	May 31, 1893	5 years	6
"	Francis W. Baker and others	Feb. 7, 1896	3 years	6
"	Mary E. Mann	May 10, 1886	3 years	6
"	Alice E. and Daniel Birtwell	April 1, 1890	3 years	6
"	A. M. McLaughlin and Robinson White, trustees.	May 7, 1891	3 years	6
"	Faculty National Medical College.	July 1, 1887		5
"	Mary E. Mann	April 20, 1892	5 years	6
"	E. M. Power and M. C. Peterson . .	May 5, 1892	5 years	6
"	Rudolph Goldschmidt	Mar. 28, 1894	3 years	6
"	Charles H. Burgess	April 2, 1894	3 years	6
"	Lacy E. Knight	May 31, 1893	5 years	6
"	Harry Lee Rust (1)	May 26, 1893	3 years	6
"	Harry Lee Rust (2)	May 26, 1893	3 years	6
"	Harry Lee Rust (3)	May 26, 1893	3 years	6
"	A. B. Hines and Walter Hieston (1) .	June 12, 1893	5 years	6
"	A. B. Hines and Walter Hieston (2) .	June 12, 1893	5 years	6
"	A. B. Hines and Walter Hieston (3) .	June 12, 1893	5 years	6
"	A. B. Hines and Walter Hieston (4) .	June 12, 1893	5 years	6
"	Francis T. Bowler	Nov. 8, 1894	5 years	6
"	A. S. McCoy	Oct. 1, 1894	2 years	6
"	August Burgdorf	Nov. 5, 1894	3 years	6
"	R. K. F. and William G. Obertouffer .	Nov. 19, 1894	3 years	6
"	Walter Hieston	June 14, 1892	5 years	6
"	James J. Lampton	Feb. 19, 1895	5 years	5
"	Faculty National Medical College . .	July 6, 1896	1, 2, and 3 yrs.	6
"	J. H. Lane	Mar. 8, 1897	3 years	6
"	J. B. Gregg Custis and J. H. Lane . .	Oct. 15, 1895	3 years	6
"	J. B. Gregg Custis and J. H. Lane . .	Oct. 15, 1895	3 years	6
"	J. B. Wimer	Mar. 8, 1897	3 years	6

Canaan Endowment Fund.

Payable	Security.	Maturity.	Interest paid to	Amount of investment.
Semi-annually	Part sq. 159,	May 16, 1897	July 1, 1897	\$3,000 00
"	Part lot 4, Merrick's sub. sq. 181	May 31, 1898	May 31, 1897	18,000 00
"	Lot 38, block 32, Columbia Heights	Feb. 7, 1899	Aug. 7, 1896	7,500 00
"	Lots 26, 27, 41, 15, 16, and 47, Lanier Heights	—	Nov. 10, 1896	1,000 00
"	Part lot 14, sq. 865	April 1, 1899	April 1, 1897	2,000 00
"	Lot 9, Lanier Heights	May 7, 1900	May 7, 1897	3,000 00
"	\$250 annually as a sinking fund.	—	Jan. 1, 1897	10,000 00
"	Lot 59, Lanier Heights	April 20, 1897	Oct. 20, 1896	2,000 00
"	Lots 30 and 31, 8 grounds Columbian University.	May 5, 1902	May 5, 1897	10,000 00
"	Part lots 11 and 12, sq. 275	Mar. 28, 1897	Mar. 28, 1896	2,500 00
"	Lots 40, 41, 42, 43, and 44, sq. 741	April 2, 1900	April 2, 1897	4,000 00
"	Lot 21, sq. 368.	May 31, 1898	Nov. 31, 1896	7,000 00
"	Part lot 9, bl. 10, Bloomingtondale	May 26, 1899	May 26, 1897	2,800 00
"	"	May 26, 1899	May 26, 1897	2,800 00
"	"	May 26, 1899	May 26, 1897	2,800 00
"	Lots 23, 24, 25, and 26, sq. south of sq. 104	June 12, 1898	June 12, 1897	1,250 00
"	"	June 12, 1898	Dec. 12, 1896	1,250 00
"	"	June 12, 1898	Dec. 12, 1896	1,250 00
"	"	June 12, 1898	Dec. 12, 1896	1,250 00
"	Part lot 9, sq. 757	Nov. 8, 1899	May 8, 1897	1,400 00
"	Sublot 33, sq. 196	Oct. 1, 1898	April 1, 1897	5,000 00
"	Lots 93, 101, 116, 120, 123, 124, 148, 163-174, sq. 672	Nov. 5, 1897	Nov. 5, 1896	12,000 00
"	Lot 2, sq. 245	Nov. 19, 1897	May 19, 1897	3,500 00
"	Sublot 30, bl. 14, Le Droit Park.	June 14, 1897	Dec. 14, 1896	2,000 00
"	Sublot 74, sq. 152	Feb. 19, 1900	Feb. 19, 1897	9,000 00
"	"	—	—	1,200 00
"	Lot 18, sq. 7, W. Eekington	Mar. 8, 1900	—	2,400 00
"	Parts lots 2 and 3, sq. 235	Oct. 15, 1898	April 15, 1897	3,000 00
"	"	Oct. 15, 1898	April 15, 1897	2,500 00
"	Lot 21, sq. 5, Eekington	Mar. 8, 1900	—	1,500 00
				\$127,400 00

Investments of the Various Funds Recommended to the President and the President's Council

Project	Project No.	Manager	Location	Start Date	End Date	Status
Project A	101	John Doe	New York	1990-01-01	1990-03-31	Completed
Project B	102	Jane Smith	Los Angeles	1990-04-01	1990-06-30	In Progress
Project C	103	Bob Johnson	Chicago	1990-07-01	1990-09-30	On Hold
Project D	104	Alice Brown	San Francisco	1990-10-01	1990-12-31	Planned
Project E	105	Charlie Davis	London	1991-01-01	1991-03-31	Completed
Project F	106	Diana Prince	Paris	1991-04-01	1991-06-30	In Progress
Project G	107	Frank Miller	Madrid	1991-07-01	1991-09-30	On Hold
Project H	108	Grace Kelly	Rome	1991-10-01	1991-12-31	Planned
Project I	109	Harry Potter	London	1992-01-01	1992-03-31	Completed
Project J	110	Ivy Green	Paris	1992-04-01	1992-06-30	In Progress
Project K	111	Jack Black	Los Angeles	1992-07-01	1992-09-30	On Hold
Project L	112	Karen White	New York	1992-10-01	1992-12-31	Planned
Project M	113	Leo Gold	Chicago	1993-01-01	1993-03-31	Completed
Project N	114	Mia Silver	San Francisco	1993-04-01	1993-06-30	In Progress
Project O	115	Noah Blue	London	1993-07-01	1993-09-30	On Hold
Project P	116	Olivia Red	Rome	1993-10-01	1993-12-31	Planned
Project Q	117	Peter Green	London	1994-01-01	1994-03-31	Completed
Project R	118	Quinn Brown	Paris	1994-04-01	1994-06-30	In Progress
Project S	119	Rachel Black	Los Angeles	1994-07-01	1994-09-30	On Hold
Project T	120	Sam White	New York	1994-10-01	1994-12-31	Planned
Project U	121	Tina Gold	Chicago	1995-01-01	1995-03-31	Completed
Project V	122	Uma Silver	San Francisco	1995-04-01	1995-06-30	In Progress
Project W	123	Victor Blue	London	1995-07-01	1995-09-30	On Hold
Project X	124	Wendy Red	Rome	1995-10-01	1995-12-31	Planned
Project Y	125	Xavier Green	London	1996-01-01	1996-03-31	Completed
Project Z	126	Yara Brown	Paris	1996-04-01	1996-06-30	In Progress
Project AA	127	Zoe Black	Los Angeles	1996-07-01	1996-09-30	On Hold
Project AB	128	Adam White	New York	1996-10-01	1996-12-31	Planned
Project AC	129	Anna Gold	Chicago	1997-01-01	1997-03-31	Completed
Project AD	130	Ben Silver	San Francisco	1997-04-01	1997-06-30	In Progress
Project AE	131	Bella Blue	London	1997-07-01	1997-09-30	On Hold
Project AF	132	Carl Red	Rome	1997-10-01	1997-12-31	Planned
Project AG	133	Dora Green	London	1998-01-01	1998-03-31	Completed
Project AH	134	Ethan Brown	Paris	1998-04-01	1998-06-30	In Progress
Project AI	135	Fiona Black	Los Angeles	1998-07-01	1998-09-30	On Hold
Project AJ	136	Gavin White	New York	1998-10-01	1998-12-31	Planned
Project AK	137	Helen Gold	Chicago	1999-01-01	1999-03-31	Completed
Project AL	138	Ian Silver	San Francisco	1999-04-01	1999-06-30	In Progress
Project AM	139	Jane Blue	London	1999-07-01	1999-09-30	On Hold
Project AN	140	Kyle Red	Rome	1999-10-01	1999-12-31	Planned
Project AO	141	Laura Green	London	2000-01-01	2000-03-31	Completed
Project AP	142	Mark Brown	Paris	2000-04-01	2000-06-30	In Progress
Project AQ	143	Nora Black	Los Angeles	2000-07-01	2000-09-30	On Hold
Project AR	144	Oliver White	New York	2000-10-01	2000-12-31	Planned
Project AS	145	Pamela Gold	Chicago	2001-01-01	2001-03-31	Completed
Project AT	146	Quinn Silver	San Francisco	2001-04-01	2001-06-30	In Progress
Project AU	147	Rachel Blue	London	2001-07-01	2001-09-30	On Hold
Project AV	148	Sam Red	Rome	2001-10-01	2001-12-31	Planned
Project AW	149	Tina Green	London	2002-01-01	2002-03-31	Completed
Project AX	150	Uma Brown	Paris	2002-04-01	2002-06-30	In Progress
Project AY	151	Victor Black	Los Angeles	2002-07-01	2002-09-30	On Hold

100

Number	Number of specimens	Date	Locality	Measure	Remarks	Number
1	1	1892	1	1	1	1
2	1	1892	1	1	1	1
3	1	1892	1	1	1	1
4	1	1892	1	1	1	1
5	1	1892	1	1	1	1
6	1	1892	1	1	1	1
7	1	1892	1	1	1	1
8	1	1892	1	1	1	1
9	1	1892	1	1	1	1
10	1	1892	1	1	1	1
11	1	1892	1	1	1	1
12	1	1892	1	1	1	1
13	1	1892	1	1	1	1
14	1	1892	1	1	1	1
15	1	1892	1	1	1	1
16	1	1892	1	1	1	1
17	1	1892	1	1	1	1
18	1	1892	1	1	1	1
19	1	1892	1	1	1	1
20	1	1892	1	1	1	1
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73	1	1892	1	1	1	1
74	1	1892	1	1	1	1
75	1	1892	1	1	1	1
76	1	1892	1	1	1	1
77	1	1892	1	1	1	1
78	1	1892	1	1	1	1

SCHEDULE "C."

LIABILITIES.

Borrowed from Fitch, Fox & Brown, on note of Columbian University at 6 per cent., and lent to the Medical Faculty at 6 per cent., note dated October 24, 1893	\$5,000 00
Borrowed from Bell & Co., for current expenses, on three demand notes at 6 per cent., as follows: June 30, 1893 \$1,500; August 29, 1893, \$2,000; July 28, 1893, \$2,500 note of Lucy E. Knight for \$7,000 deposited as collateral security	6,000 00
Borrowed from the American Security and Trust Company for current expenses note of Powers & Peterson for \$10,000 deposited as collateral security on demand note	1,000 00
Borrowed from Riggs National Bank on 90-day note of Treasurer, dated July 1, 1896, five notes, aggregating \$14,900, were curtailed July 1, 1896, and the above note of \$7,900 given, renewed for 90 days at 5 per cent. interest April 4, 1897	7,900 00
Borrowed from Riggs National Bank about June 1, 1896, on demand note of Treasurer, at 5 per cent. per annum, discounted to the Corcoran Endowment Fund account by Robert H. Martin	3,000 00
Borrowed from Riggs National Bank December 1, 1896, on 60-day note of Treasurer, at 5 per cent. per annum, renewed May 3, 1897, for 90 days	2,000 00
	<u>\$27,900 00</u>

The following liabilities recommended by the Treasurer to be omitted from the report, conditional upon being dropped as assets of Corcoran Endowment fund:

Note secured on the University Building, 5 per cent. \$18,000 00	
Note secured on Law Building and Third Street house, 5 per cent.	16,000 00
Note secured on Preparatory School Building, 6 per cent.	4,434 43
	<u>\$38,434 43</u>

SUMMARY "E."—Table of Insurance

Premises.	Amount.	Name of company.	Location of company.	No. of policy.	Premium.	Life of policy.	Policy expires.
Law Building	\$3,000	Columbia	Dist. of Col.	1,120	\$12.00	1 year	Jan. 29, '98
Cutler House, 222 Third St.	3,000	Hyperion	"	17,531	12.00	1 "	Jan. 29, '98
The Academy Building	3,000	Washington	"	4,887	15.00	1 "	Jan. 29, '98
	2,000	Columbia	"	8,080	50.00	3 years	Nov. 1, '97
	3,000	Franklin	"	8,640	25.00	3 "	Nov. 1, '97
	3,000	Columbia	"	1,888	20.00	1 year	Jan. 10, '98
	3,000	Regis	"	5,007	20.00	1 "	Jan. 10, '98
	3,000	Washington	"	5,273	20.00	1 "	Jan. 10, '98
	3,000	Columbia	"	5,600	20.00	1 "	Jan. 10, '98
	3,000	Franklin	"	9,171	20.00	1 "	Jan. 10, '98
University Building	3,000	Liverpool & Lons	N Y Branch, 5,130, 968	20.00	20.00	1 "	June 16, '97
	3,000	London and Globe	New York	5,015	20.00	1 "	June 17, '97
Furniture, fixtures, etc., in University Building.	3,000	Liverpool & Lons	N Y Branch, 4,918, 515	25.00	25.00	1 "	June 13, '97
Powell House, 1707 1 St.	3,000	Franklin	Dist. of Col.	10,416	12.50	1 "	Feb. 11, '98
	2,500	Fireman's	"	19,013	25.00	5 years	Feb. 14, 1902
	\$903,000				\$816.50		

REPORT OF AUDITING COMMITTEE

To the Corporation of the Columbia University.

GENTLEMEN: The Auditing Committee have examined the bonds, stocks, and notes set forth in the foregoing Report of the acting Treasurer, stating the investment of the moneys belonging to the various endowment funds, and the miscellaneous securities of the Corporation now in the hands of the acting Treasurer, and find the foregoing schedules to be correct, and that the securities are now in the iron safe in the President's office, in the University Building, under the control of the President and acting Treasurer.

We have also carefully examined the foregoing statements of receipts and expenditures during the year ending May 31, 1897, and balances, and find the same to be correct and to agree with the vouchers. We also submit herewith a supplemental report.

CHARLES W. NEEDHAM

J. ORMOND WILSON

W. H. McKNEW

JUNE 14, 1897.

*Annual Financial Report of the Medical Department of the
Columbian University from May 15, 1896, to May 11, 1897.*

RECEIPTS AND EXPENDITURES.

1896.		
May 15.	Balance from last account.	\$747 49
July 8.	Loan from Columbian University	1,200 00
1897.		
May 11.	Receipts from students' fees to date.	14,425 11
	From Dental Department, one-fourth interest on \$10,000 loan.	125 00
	From Dental Department, salaries of four professors turned over to the General Fund.	1,717 60
	On account of janitors' wages from Dental Depart- ment	180 00
	Total receipts	\$18,395 20
	Total expenditures	16,294 03
	Balance to next account	\$2,101 17

The expenditures of \$16,294 03 may be summa-
rized as follows:

1896.		
July	6.	Interest on half of \$1,200 loan to date, semi-annual 18 00
		One half of one \$400 note 200 00
July	8.	Columbian University, semi-annual interest on \$10,000 loan 250 00
		Sinking fund on above loan. 250 00
Oct.	24.	Semi-annual interest on balance of \$5,000 loan \$4,000 120 00
Oct.	24.	One note of original \$5,000 500 00
1897.		
Jan.	12.	The Columbian University, semi-annual interest on \$10,000 loan. 250 00
Jan.	12.	Semi-annual interest on \$1,200 36 00
Jan.	12.	Half semi-annual interest on balance of \$1,200, loan \$800 12 00
April	17.	Semi-annual interest on \$3,500, balance of \$5,000 105 00

1896.

May 11. Salary of Professor J. Ford Thompson	\$1,017 00
" " " W. W. Johnston	1,017 00
" " " A. F. A. King	1,017 00
" " " W. P. Carr	1,017 00
" " " D. W. Prentiss	1,017 00
" " " D. K. Shute	1,017 00
" " " E. A. de Schweinitz	1,017 00
" " " Walter Reed	500 00
" " " W. S. Washburn	200 00
" " Dr. E. G. Seibert	200 00
" " Dr. James Carroll	200 00
" " Dr. F. P. Morgan	75 00
" " Professor G. W. Cook	12 00
" " " G. N. Acker	135 00
" " " C. W. Richardson	90 00
" " " H. C. Yarrow	50 00
" " " T. E. McArdle	50 00
" " " Sterling Ruffin	50 00
" " " E. L. Tompkins	50 00
" " " H. L. E. Johnson	50 00
" " " Geo. Foster	55 00
" " " W. F. R. Phillips	50 00
" " " J. Van Rensselaer	50 00
" " " A. R. Shands	50 00
" " " G. Byrd Harrison	55 00
" " " W. K. Butler	55 00
Demonstrator of anatomy	820 00
Fuel	180 56
Electric light and gas	394 66
Advertising	377 73
Repairs to building	170 07
Catalogues	150 00
Commencement prizes, etc.	142 00
Fire insurance	83 00
Janitors' wages (two, part refunded from Dental Department)	605 00
Secretary-Treasurer's commission, 2½ per cent	441 16
Museum	151 85
New apparatus and equipment	994 75

1896.

May 11. Telephone.....	\$70 00
Sundries, printing, postage, water rent, incidentals, as freight, chairs, tables, towels, etc.....	753 26
Total expenditures.....	\$16,294 03

Respectfully submitted.

E. A. DE SCHWEINITZ,
Secretary-Treasurer.

Examined and found correct.

We, the undersigned, have examined the foregoing account of the
Secretary-Treasurer, and find the same to be correct and sustained by
the proper vouchers, leaving a balance of \$2,101.17.

(Signed)

A. F. A. KING,
W. P. CARR,
Committee of Audit.

*Annual Financial Report of the Dental Department of the
Columbian University from May 15, 1896, to May 11, 1897.*

1896.	
May 15. Cash balance from last account...	\$305 79
1897.	
May 11. Receipts from lecture fees and infirmary to date....	5,207 15
Total receipts	\$5,512 94
Total expenditures	4,912 92
Balance to next account..	600 02

The expenditures of \$4,912.92 may be summarized as follows:

Salaries of J. R. Hagan and W. H. Trail, 9 months.....	\$450 00
Salary of Professor H. C. Thompson.....	429 40
Salary of J. Hall Lewis.....	429 40
Paid to Medical Department as agreed.....	1,717 60
Paid to Medical Department one-fourth of annual interest on \$10,000.....	125 00
Paid one-half of \$400	\$200 00
With interest at 6 per cent. on \$600 for six months and \$400.....	30 00
E. J. Lewis, dental material	230 00
Catalogues.....	447 13
Advertising	81 40
Janitor's wages ..	89 52
Demonstrator of anatomy	180 00
Commencement expenses—prize, etc.....	180 00
Dean's commission for the year, at 2½ per cent.....	115 05
Secretary-Treasurer's commission for the year, at 2½ per cent..	137 82
Sundries.....	137 82
	162 78
Total expenditures.....	\$4,912 92

Respectfully,

E. A. DE SCHWEINITZ,
Secretary-Treasurer.

The above accounts, with vouchers, have been examined and found correct.

(Signed)

J. HALL LEWIS,
H. C. THOMPSON,
Committee on Audit.

THE COLUMBIAN UNIVERSITY VETERINARY SCHOOL.

Report of the Treasurer for the Session Beginning October 1, 1896.

Receipts from students for session.....	\$1,345 00
Balance from National Veterinary College.....	38 46
Total receipts.....	\$1,383 46

Disbursements as follows:

Rent, October, 1896, to May, 1897, inclusive.....	\$480 00
Janitor's services.....	105 00
Coal and gas.....	78 25
Announcements and printing.....	49 00
Diplomas and commencement expenses.....	92 00
Laboratory facilities.....	90 00
Incidentals.....	23 30
	<hr/> 917 55

Balance June 1, 1897..... \$465 91

Respectfully submitted.

A. M. FARRINGTON,
Treasurer.

Audited and found correct.

D. E. SALMON.
CHARLES F. DAWSON.

JUNE 8, 1897.

